IPS-2000 Series User's manual/使用手冊

V1.1



www.artdio.com.tw

Safety Instructions

- Do not attempt to service the product yourself. Any servicing of this product should be referred to qualified service personnel.

- To avoid electrical shock, do not put your finger, pin, wire, or any other metal objects into vents and gaps.

- To avoid accidental fire or electrical shock, do not twist power cord or place it under heavy objects.

- The product should be connected to a power supply of the type described in the operating instructions or as marked on the product.

- To avoid hazard to children, dispose of the product’s plastic packaging carefully.

- Please read all the instructions before using this product.

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1. Product Introduction

The product is designed for flexibility to be placed flat or vertically, to customize the different needs of users.

Vertical Panel Image

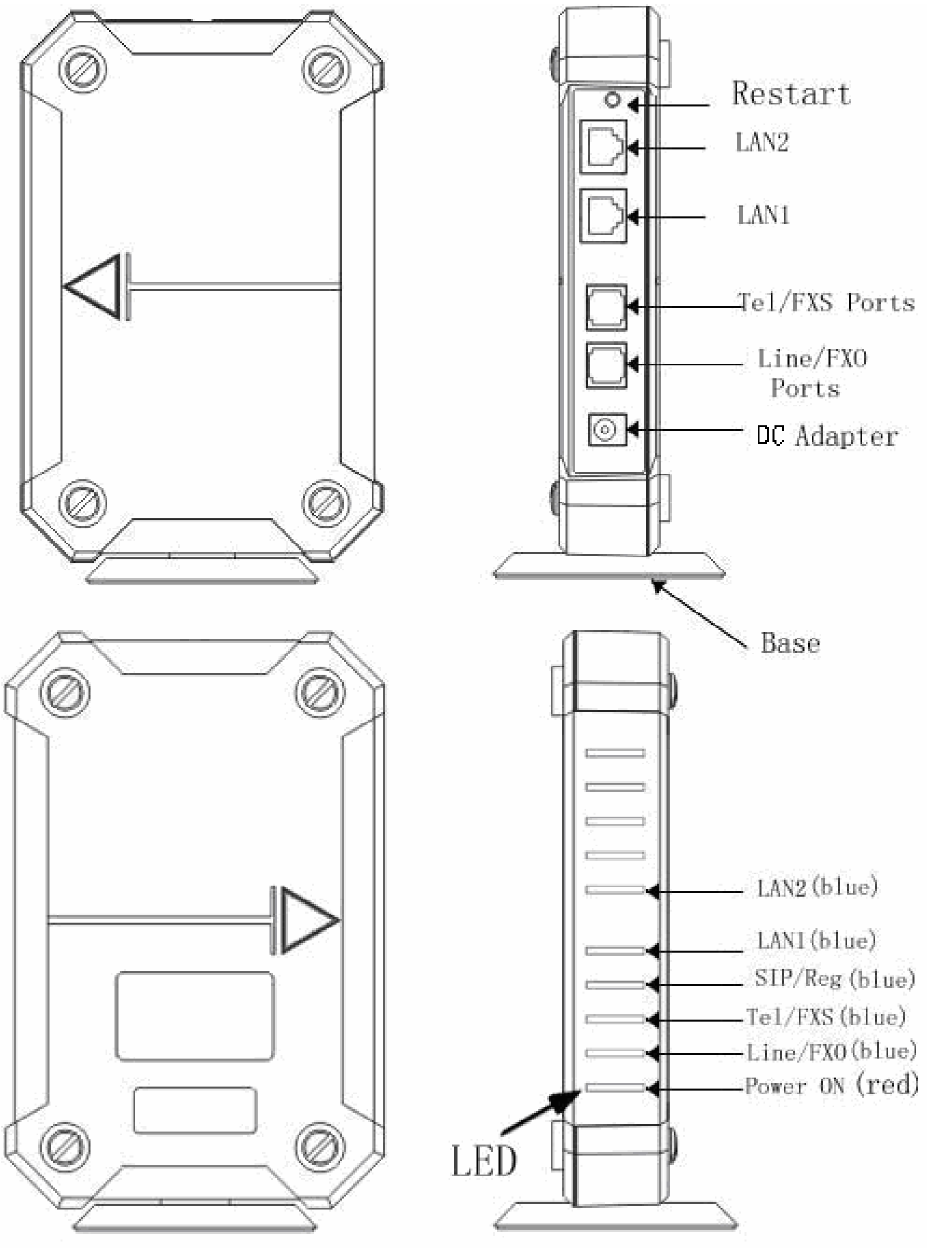


Flat Panel Image

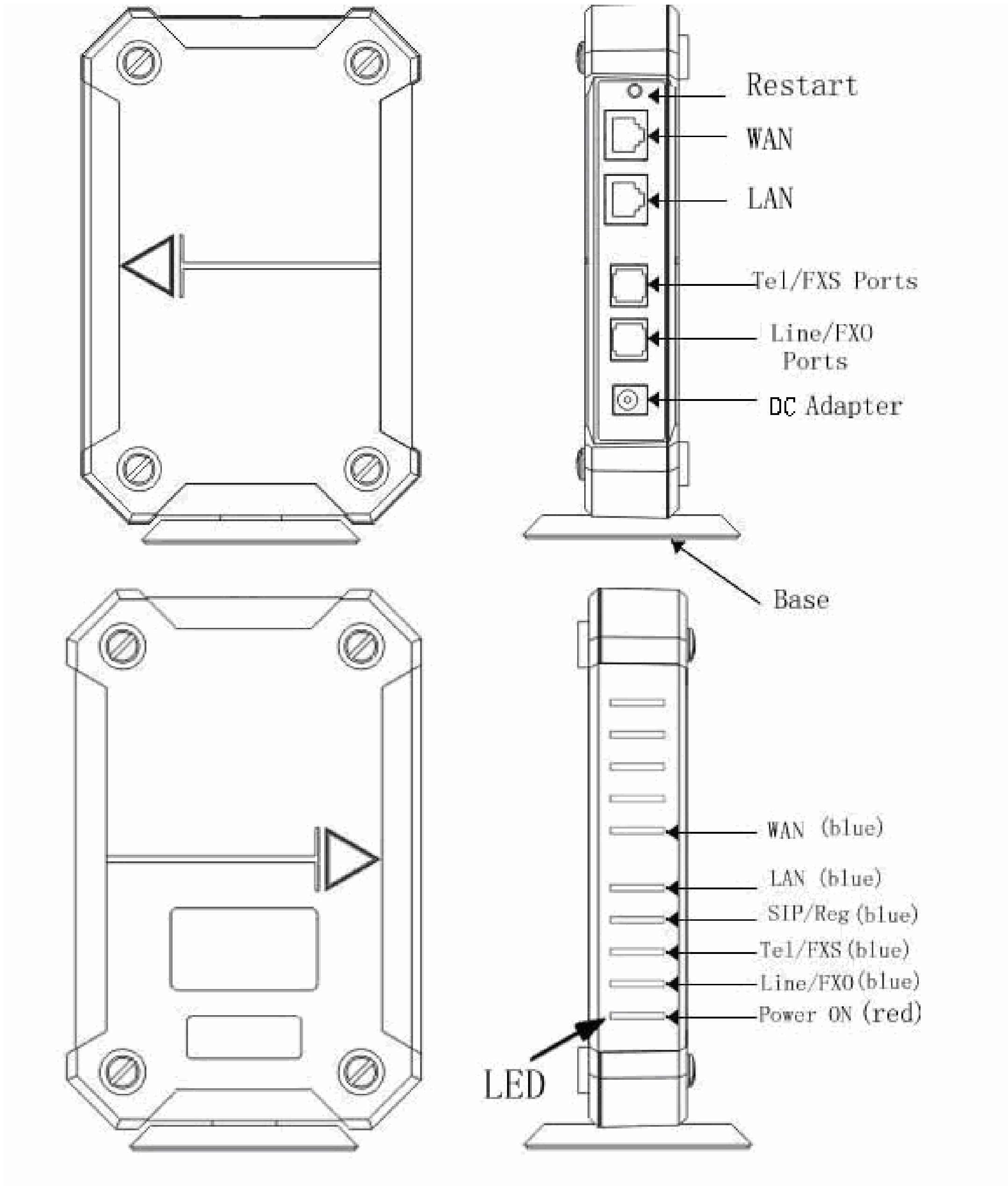


2. Quick Installation Guide

2.1 Interface Description (suitable for IPS-2000 Plus)

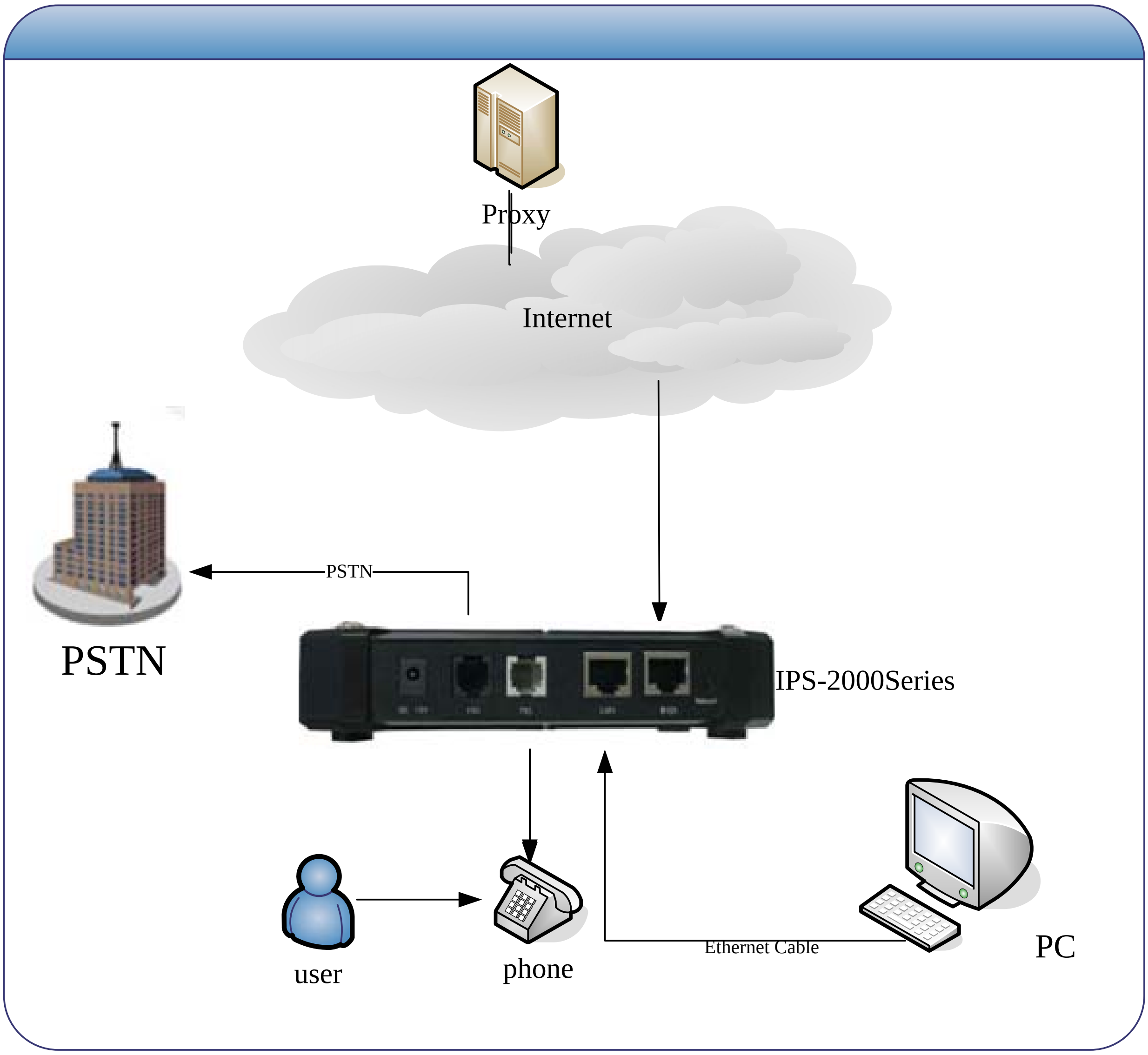


2.2 Interface Description (suitable for IPS-2000NPlus)



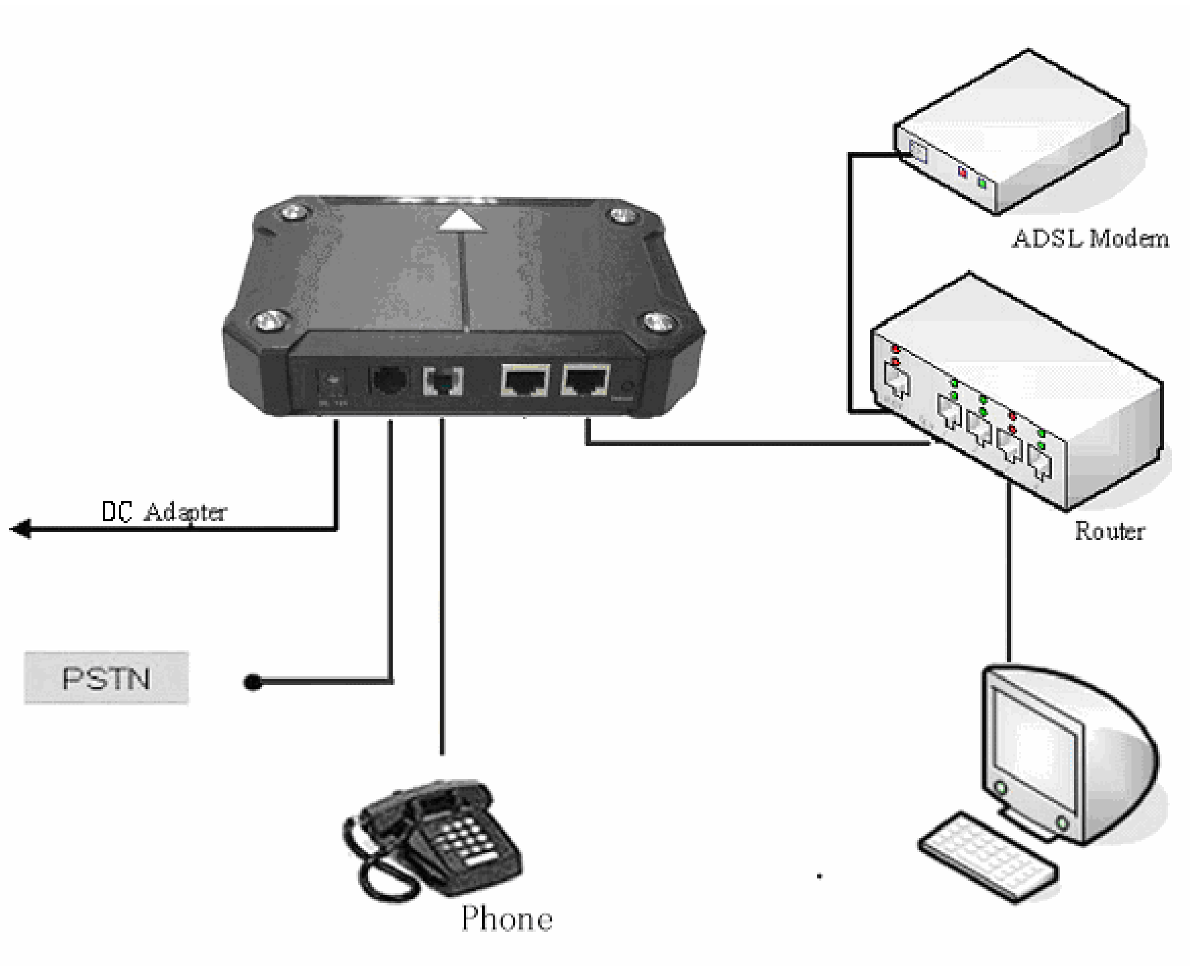
2.3 Network Installation and Setting

Network Setting (The image shown is IPS-2000 Series network setting, it could be used by general users.)

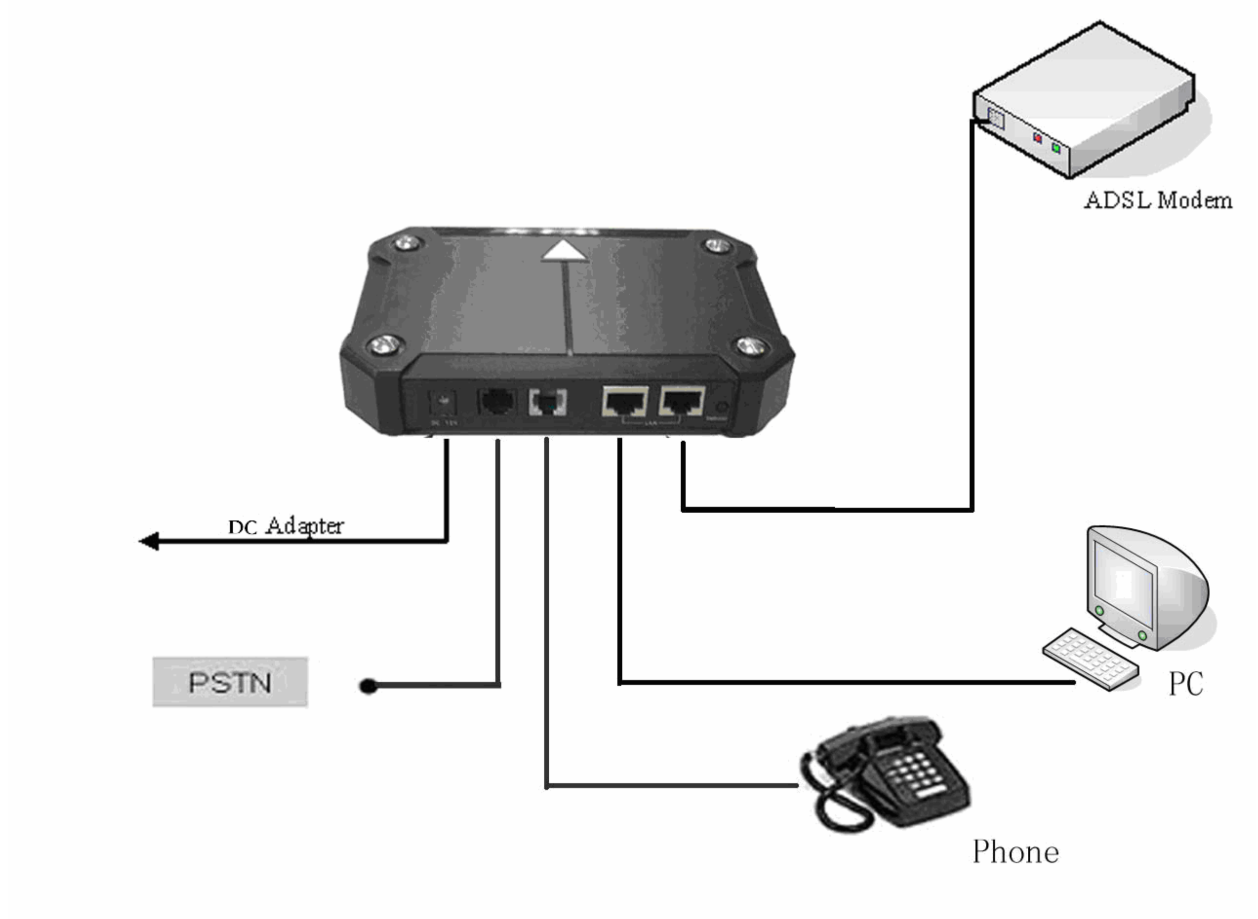


- Environment Setting

ISP Environment	Suggestion
IP Router Setting	This setting is used only when your environment setting is using an IP router and the router only serve as a network interface, which is similar to a "Hub" connection.
IPS-2000 Series network setting with a Router is shown below: Connect the RJ-45 cable to the WAN (LAN2) port on IPS-2000 Series, and then connect the other RJ-45 to the LAN port of IP Router.	



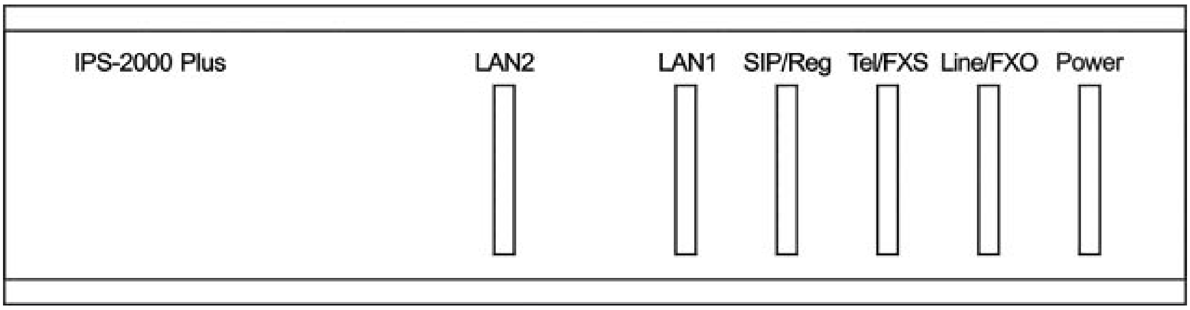
- Environment Setting

<table>
<tr><td>ISP Environment</td><td>Suggestions</td></tr>
<tr><td>Network Setting without IP Router
(General setting)</td><td>This is to connect IPS-2000 Series between ADSL modem and PC, suitable for ADSL PPPoE (dynamic IP) user who has only 1 PC. Note ISP must provide more than 1 dynamic IP.</td></tr>
<tr><td colspan="2">Connect the RJ-45 to the WAN (LAN2) port on your IPS-2000 series, connect the other RJ-45 to your ADSL modem. The other LAN port on IPS-2000 series could be used to connect with PC or other compatible Internet devices.

</td></tr>
</table>

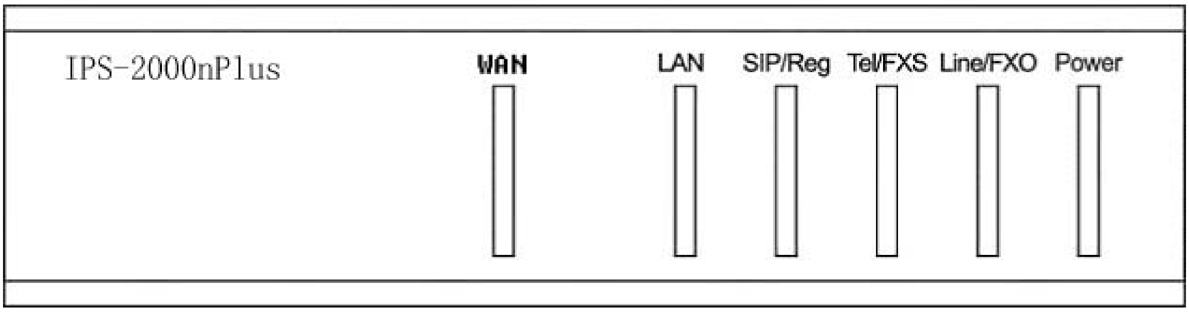
- If you are not sure what environment setting , you should be using, please contact your ISP(Internet Service Provider)

2.4 System Registration and log on

2.4.1 Status LED Indicator Explanation (suitable for IPS-2000 Plus)



2.4.2 Status LED Indicator Explanation (suitable for IPS-2000NPlus)



Status LED Indicator	Explanation
Power ON(Red)	Red light On, power source is connected
Line/FXO(Blue)	Blue light flash, PSTN line is in use
Tel/FXS（Blue）	Blue light flash, Telephone line is in use
SIP/Reg (Blue)	Blue light On, Registration successful
LAN(LAN1)（Blue）	Blue light On, LAN(LAN1) is connected
WAN(LAN2)（Blue）	Blue light On, WAN(LAN2) is connected

2.4.3 Quick Startup and Registration Guide

[Step 1 Startup]

Plug into the power outlet, the power indicator turns on means the IPS-2000 Series is activated, followed by the Tel/ FXS and SIP/ Reg indicator lights blinking, and then the LAN indicators turn on (LAN/LAN1 Indicator lights on, WAN/LAN2 Indicator lights on). When the stated indicators are turned on, the startup is completed and it is connected to the Internet.

[Step 2 Network Setting]

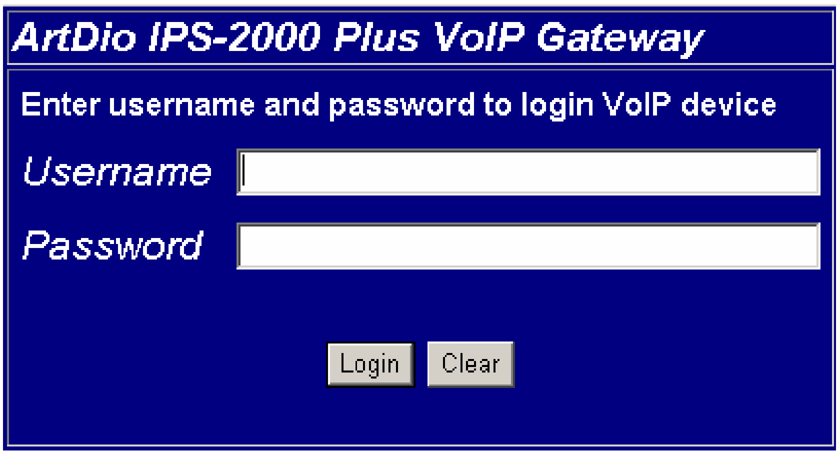
IPS-2000 Series support the IVR (Interactive Voice Response) system that allows the customers to configure the IPS-2000 Series easily. Please follow the instruction below to set IP numbers.

1）Set IP, press #112 XXX*XXX*XXX*XXX#
2）Set Mask IP, press #113 XXX*XXX*XXX*XXX#
3）Set Gateway IP, press #114 XXX*XXX*XXX*XXX#
4）Set DNS Server, press #115 XXX*XXX*XXX*XXX#

Example:
Network default mode of IPS-2000 series is DHCP mode. If you want to or should use Fixed IP address, please follow by step 2 to configure IPS-2000 series. If you need to change the static IP number to 192.168.1.12, follow the instruction given and enter #112192*168*1*12#, once the IPS-2000 Series reboot, the setting is completed. Users are able to set the IPS-2000 Series to DHCP function, by picking up the phone or putting it on speakerphone mode, follow the instruction and enter #111#. After the system reboot, it will automatically picks up an IP number.

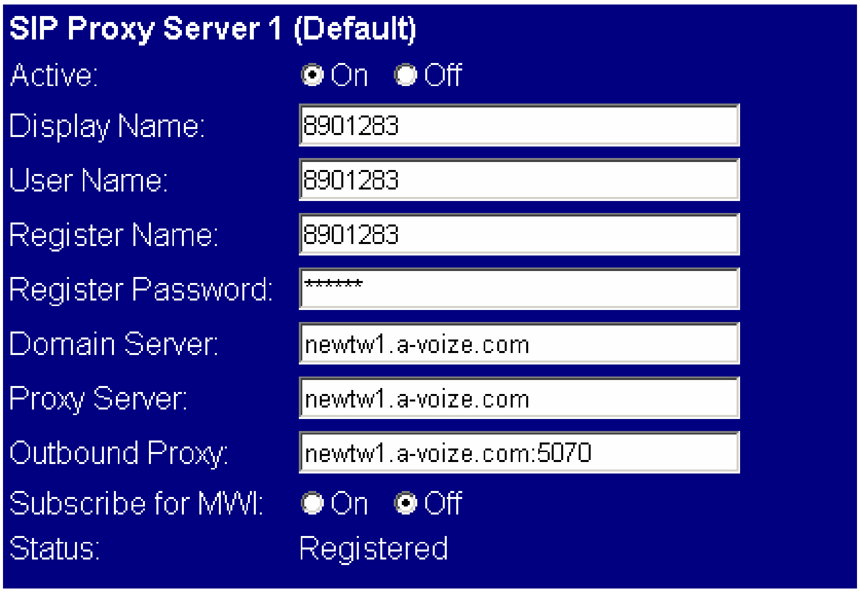
[Step3 Registration and Log on]

After startup is completed, pick up the phone or put it on a speakerphone mode, enter #126#.Untill you are able to listen to IVR, please input the IP address in the Web page, and add the port number “9999” at the end of IP address, as: http://IPS-2000 Series IP:9999 (Example: if your IPS-2000 Series IP address is 192.168.1.100, then input http://192.168.1.100:9999) , then you will log on to the web page shown below. For login , please input Username as “root” , and Password as “test” , you can configure all the setting.(The username “root” and password “test” are for initial log on only, customers can change the setting anytime.)



When you get into the Web Management interface, move the cursor to the SIP setting panel, click on the

pull-down menu and select Service Domain, fill in the blanks at Service Domain Setting according to related account information. You can configure the IPS-2000 Series as shown below. For example, the domain registration of newtw1.a-voize.com with the port: 5070.



After the setting is finished, press submit key below to save the setting and press save change on the left to store all the settings. Press "save" button and IPS-2000 Plus will restart.

*Remark: Register platform information like SIP Service Domain...etc. need to be provided by ISP.

2.5 IVR Interface for IPS-2000 Series

You can use the PSTN phone to configure the IPS-2000 Series.
Please follow the instruction to configure your IPS-2000 Series.

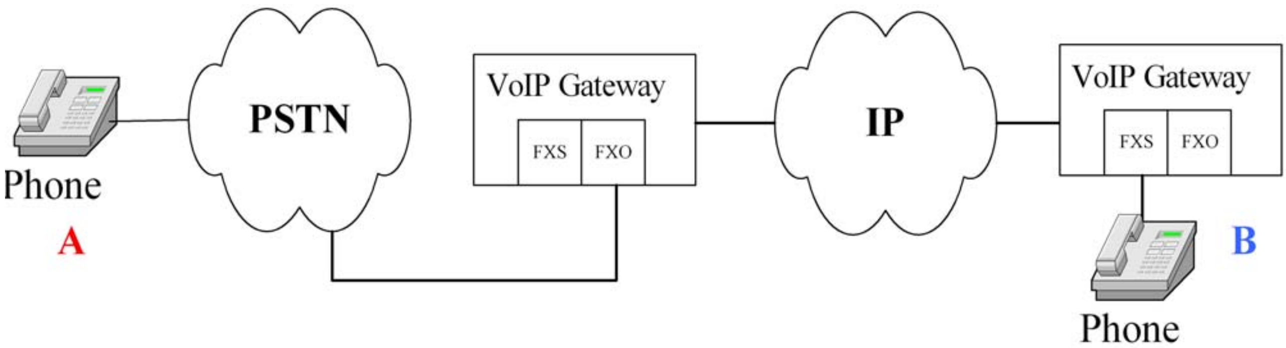
IVR Action	IVR Menu	◆ Notes
Switch IP mode（Select VoIP or PSTN mode）	● * (default PSTN mode) ● 0* (default IP mode)	
Reboot	#195#	◆The system reboot
Factory Reset	#198#	◆The system reboot and all user-changeable will be lost and return to factory default setting
Check LAN port IP address	#120#	◆Check the current IPS-2000 Series LAN port IP address
Check IP Type	#121#	◆Check the current IPS-2000 Series IP type, static or non-static
Check Mask IP	#123#	◆Check the current IPS-2000 Series Mask IP address
Check Gateway IP	#124#	◆Check current gateway IP address
Check DNS IP	#125#	◆Check current DNS IP address

Check WAN port IP address	#126# ◆Check the current IPS-2000 Series WAN port IP address
Check Firmware Version	#128#
Set DHCP client	#111# ◆Change to DHCP client setting
Set Static IP	#112XXX*XXX*XXX*XXX# ◆every X represent a number
Set Mask IP	#113XXX*XXX*XXX*XXX#
Set Gateway IP	#114XXX*XXX*XXX*XXX#
Set DNS Server	#115XXX*XXX*XXX*XXX#
Set Codec	#130+[1-8]# ◆(1)G711 u-Law, (2)G711 a-Law, (3)G723.1, (4)G729a ,(5)G726 16K, (6)G726 24K, (7)G726 32K,(8) G726 40K Set the codec you want to the first priority
Set Handset Gain	#131+[00~15]#
Set Handset Volume	#132+[00~12]#

2.6 Inbound Function

1.Inbound means making phone call from PSTN line into FXO port of IPS-2000 Series, then transit to the Internet and reach the other end of VoIP gateway FXS. The process as below(A->B)：

2.Outbound means making phone call from FXO line into PSTN port of IPS-2000 Series, then transit to the Internet and reach the other end of VoIP gateway FXO. The process as below(B->A)：



IPS-2000 Series Inbound Steps

[Step 1 Account Registration]

First make sure the IPS-2000 Series is successfully registered with your ISP, have a SIP number assigned to you and also have a PSTN number from local telephone company.

[Step 2 Active Inbound/Outbound Function]

Set the Auto Answer function in the Phone Setting to ON.

- Inbound Operation:

You may directly get through from PSTN external cable, and a second dialing ring will come after several rings (IPS-2000 Series will follow the vibrating ring) before it transfers to the phone number you need. If you have set PIN CODE, you may hear some vibrating rings after getting through (IPS-2000 Series will follow the vibrating ring). Then some urgent “Du” ” Du” rings will follow. You may enter PINCODE# to hear the dialing sound for a second time before it transfers to the one you need.

- Outbound Operation:

Dial IPS-2000 Series SIP number. A second dialing sound will come after several vibrating rings (IPS-2000 Series will follow vibrating ring also) before it transfers to the one you need. If you have set “PIN CODE”, you may hear some vibrating rings after getting through. Then some urgent “Du” ” Du” rings will follow. You may enter PINCODE# to hear the dialing sound for a second time before it transfers to the one you need.

Remark: During the waiting for 2nd dialing, phone will be hanging up if waiting too long.

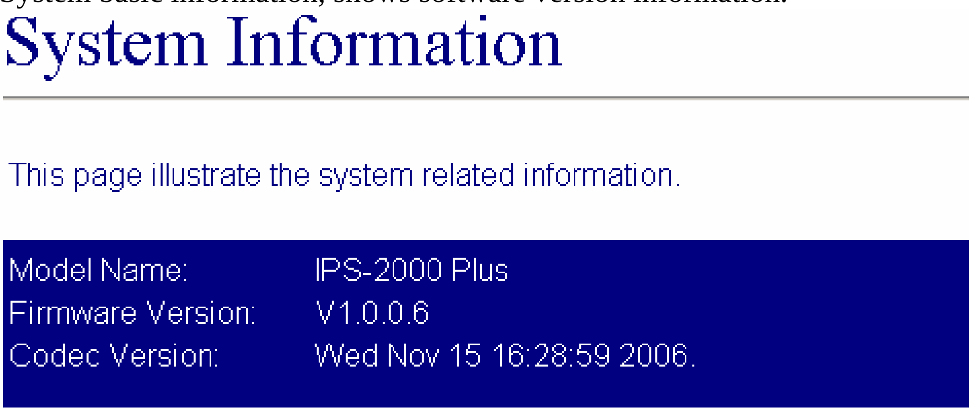
3. Web Configuration Page

Pick up the handset or press the speaker phone key, then dial #126# to hear your current IP address from the IPS-2000 Series. Enter the IP address into your Internet browser URL address as "http://IP address:9999" to enter configuration web page, input user name and password, the default user name is "root" and password is "test", click "Login" button you will be able to get into the configuration web page of IPS-2000 Series.

In the configuration page, after the setting is finished, press submit key below to save the setting and press save change on the left to store all the settings. Press "save" button and IPS-2000 Series will restart.

3.1 Information

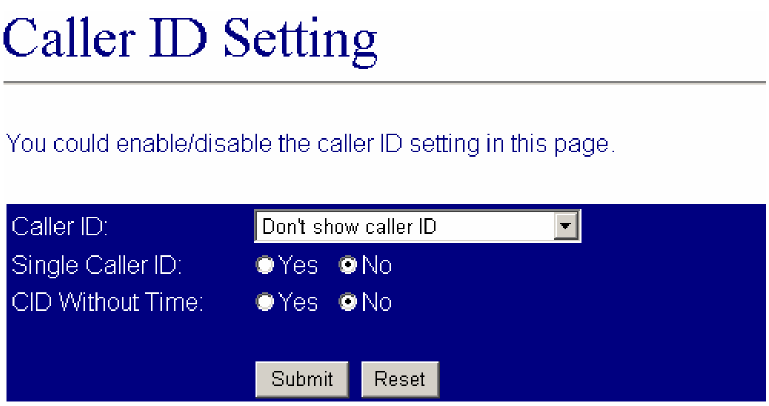
System basic information, shows software version information.



3.2 Phone Setting

3.2.1 Caller ID

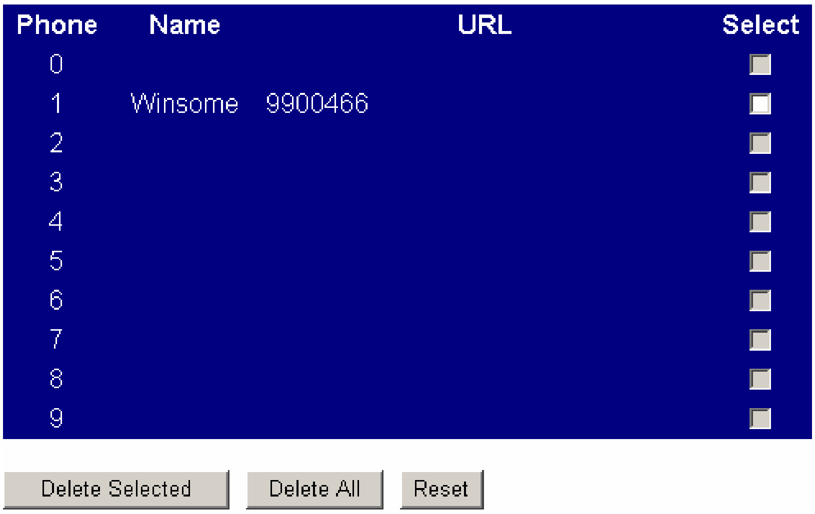
To configure the settings of the caller ID.



Caller ID Setting	
Field Name	Description
Caller ID	Select display of caller ID, 4 options available, by FSK or DTMF
Single Caller ID	Select using single call ID or not
CID Without Time	Set display time for calls.

3.2.2 Phone Book

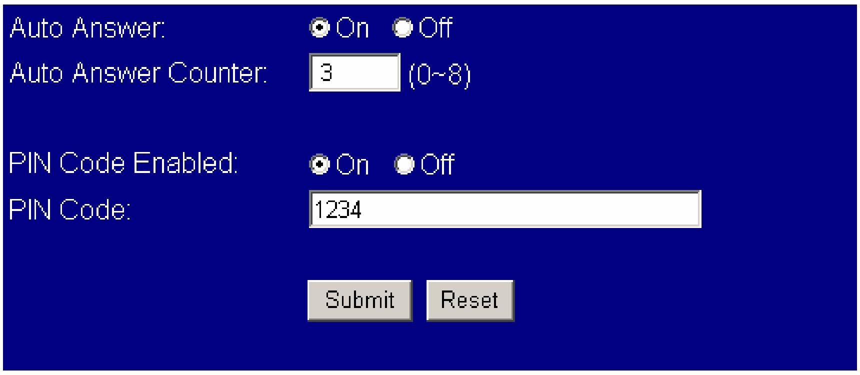
To configure the settings of the phone book and the speed dial.



PHONE Book	
Field Name	Description
Delete Selected	Click to delete selected content.
Delete All	Click to delete all contents.
Phone	Field sequence.
Name	Field name.
URL	Field for telephone number
Add Phone	Add phone button. Enter phone number then click this button, name and phone number will be filled into the fields accordingly.(Up to 140 phone records)
Reset	Clear fields to re-enter data.

3.2.3 Auto Answer

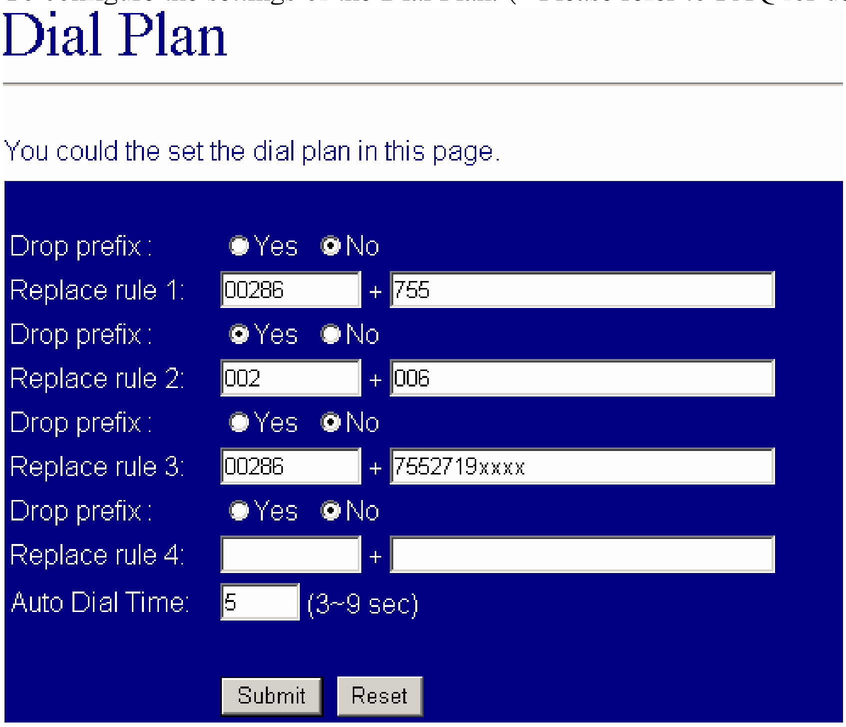
To configure the settings of the Auto Answer.



Auto Answer	
Field Name	Description
Auto Answer	Select this function will enable second dialing if has a call.
Auto Answer Counter	Auto answer ring time. Set how many rings to get into the silence mode for 2nd dialing
PIN Code Enabled	Select to use password for 2nd dialing.
PIN Code	Set the password for 2nd dialing.

3.2.4 Dial Plan Setting

To configure the settings of the Dial Plan. (* Please refer to FAQ for details)

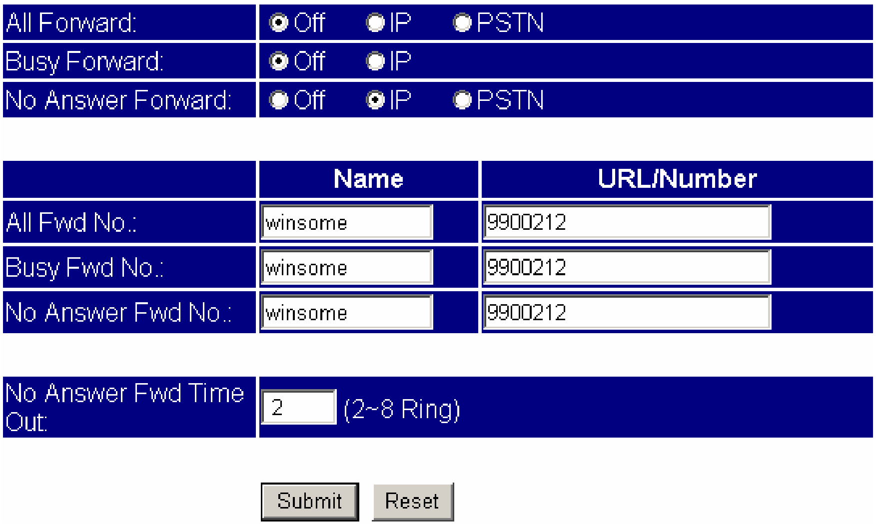


Dial Plan Setting	
Field Name	Description

Drop Prefix	Default to "No". - No (Add): When the dialing pattern matched, add to dialing number as a prefix. - Yes (Replace): When the dialing pattern matched, replace matched dialing number.
Replace rule1 ~ 4	Set dial plan criteria +: OR, multiple patterns can be separated with "+" which represents "OR" x: represents 1 digit, xxx represent 3 digits
Auto Dial Time	Set waiting how many seconds to dial out after entered all phone number digits without enter the "#"sign.

3.2.5 Forward Setting

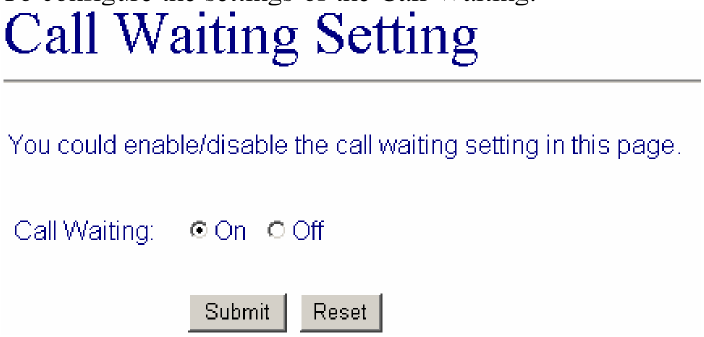
To configure the settings of the Forward Setting.



Forward Setting	
Field Name	Description
All Forward	Always forward. Every call will be forwarded to the telephone number in the "All Fwd No."-"URL" field.
Busy Forward	If a call comes in when line is busy, call will be forwarded to the telephone number in the "Busy Fwd No."-"URL" field.
No Answer Forward	If a call comes in with no answer after certain of rings, call will be forward to the telephone number in the "No Answer Fwd No."-"URL" filed.
All Fwd No	Enter the name and telephone number for forwarding.
Busy Fwd No	Enter the name and telephone number for forwarding when line is busy.
No Answer Fwd No	Enter the name and telephone number for forwarding when no answer.
No Answer Fwd Time Out	Set how many rings before a call times out.

3.2.6 Call Waiting

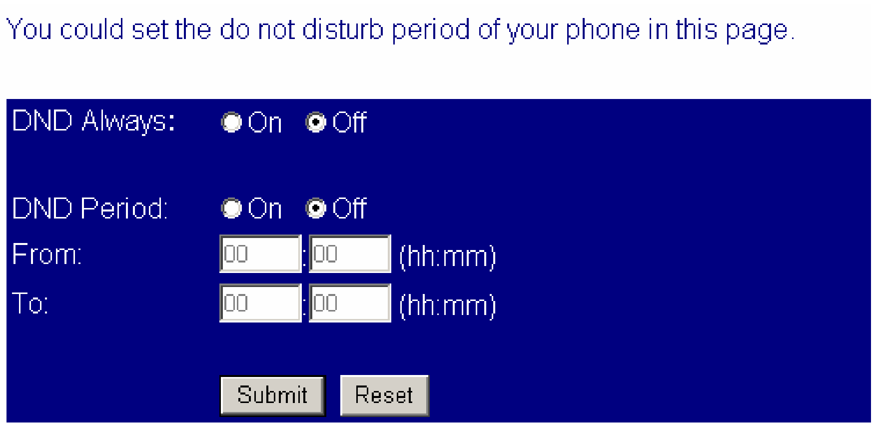
To configure the settings of the Call Waiting.



Call Waiting	
Field Name	Description
Call Waiting	To enable or disable call waiting function. While talking to A, B is calling, at this time a beeping announce every 3 seconds to indicate a call is waiting, quickly press and release on hook/off hook button to put A call on hold and switch to take B call . You can quickly press and release on hook/off hook button again to keep B call on hold and switch back to take A call.

3.2.7 DND Setting

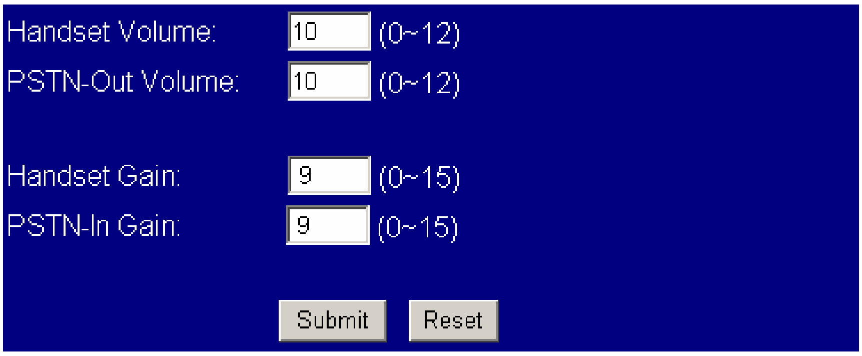
To configure the settings of the DND Setting.



DND Setting	
Field Name	Description
DND Always	Do not disturb function. To block all incoming IP calls, make On checked. All IP calls will hear a busy tone. Check off to disable this function. This function does not effect PSTN call.
DND Period	Time for activate Call Block function. Put start time in "From" field, put end time in "To" field.

3.2.8 Volume Setting

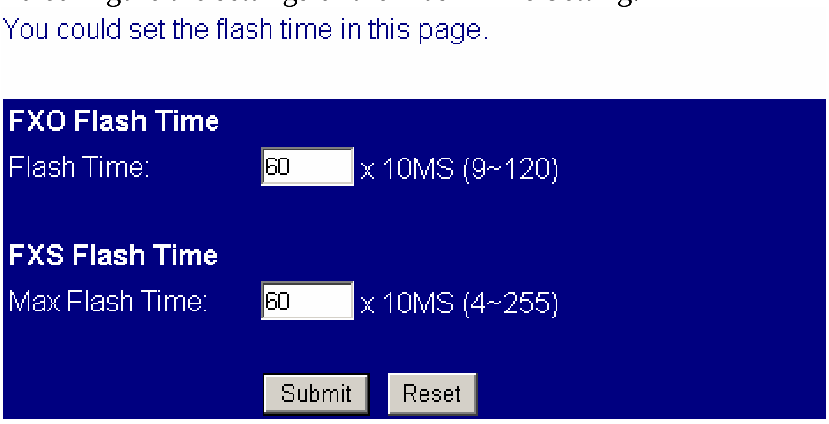
To configure the settings of Volume setting.



Volume Setting	
Field Name	Description
Handset Volume	Adjust handset volume.
PSTN-Out Volume	Adjust handset volume for using PSTN line.
Handset Gain	Adjust microphone gain(suggest not to exceed 13)
PSTN-In Gain	Adjust microphone gain for using PSTN line.

3.2.9 Flash Time Setting

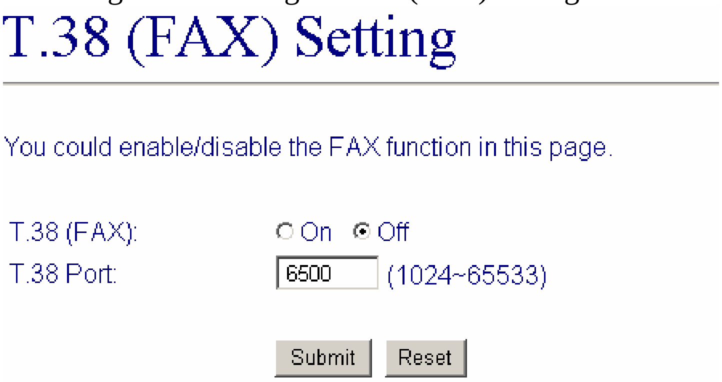
To configure the settings of the Flash Time Setting.



Flash Time Setting	
Field Name	Description
Flash Time	Set on hook/off button as a switch on FXO port. If press the on hook /off hook button longer than the setting time will be treated as hang up. Less than the setting time will be treated as switch.
Max Flash Time	Set on hook/off button as a switch on FXS port. If press the hook/off hook button longer than the setting time will be treated as hang up. Less than the setting time will be treated as switch.

3.2.10 T.38 (FAX) Setting

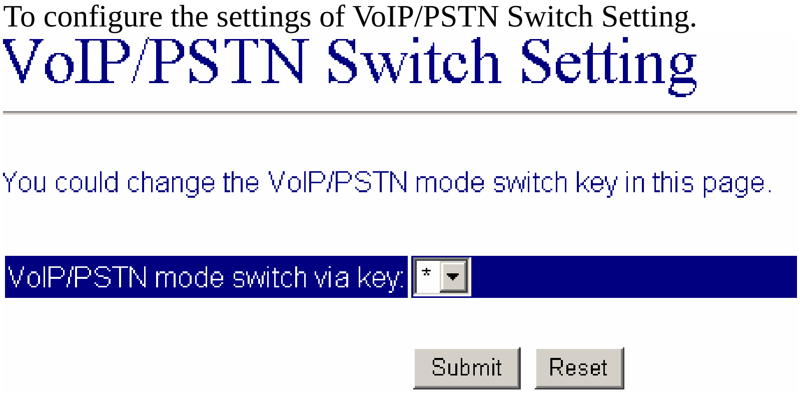
To configure the settings of T.38(FAX) setting.



T.38 (FAX) Setting	
Field Name	Description
T.38(FAX)	Set network FAX function.
T.38 Port	Set FAX port.

3.2.11 VoIP/PSTN Switch Setting

To configure the settings of VoIP/PSTN Switch Setting.



Flash Time Setting	
Field Name	Description
VoIP/PSTN mode switch via key	Select one key of the phone to switch to PSTN mode.

3.3 Networking

3.3.1 Status

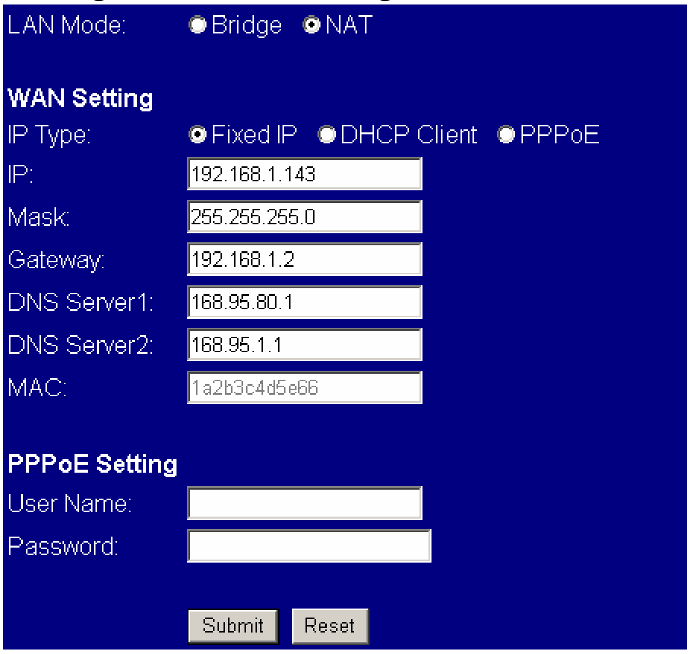
To check the network status of IPS-2000 Series.

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.143
Mask:	255.255.255.0
Gateway:	192.168.1.2
DNS Server 1:	168.95.80.1
DNS Server 2:	168.95.1.1

Interface 1	
Type:	DHCP Server
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.80.1
DNS Server 2:	168.95.1.1

3.3.2 Network Setting

To configure the network settings of the IPS-2000 Series.

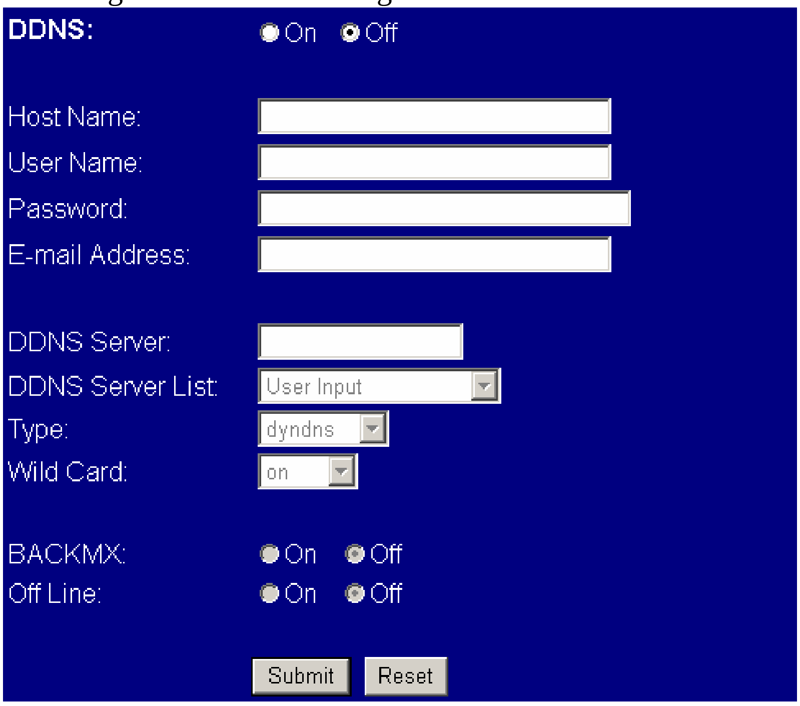


Network Setting	
Field Name	Description
LAN Mode	Bridge: Select to use bridge function. NAT: Select to use NAT function.
IP Type	Select proper network type according to your network environment. ● Fixed IP : to use fixed IP, user need to fill out the IP information. ● DHCP Client : DHCP server will assign IP.

	● PPPoE: A type of broadband connection that provides authentication (username and password) in addition to data transport. Such as ADSL PPPoE dialup.
IP	Set IPS-2000 Series IP address.
Mask	Set subnet mask IP address.
Gateway	Set gateway IP address.
DNS Server 1	Set primary DNS IP address.
DNS Server 2	Set secondary DNS IP address.
MAC	MAC address.
PPPoE Setting	
User Name	While select PPPoE, enter ADSL account name.
Password	While select PPPoE, enter ADSL account password.

3.3.3 DDNS Setting

To configure the DDNS settings of the IPS-2000 Series.

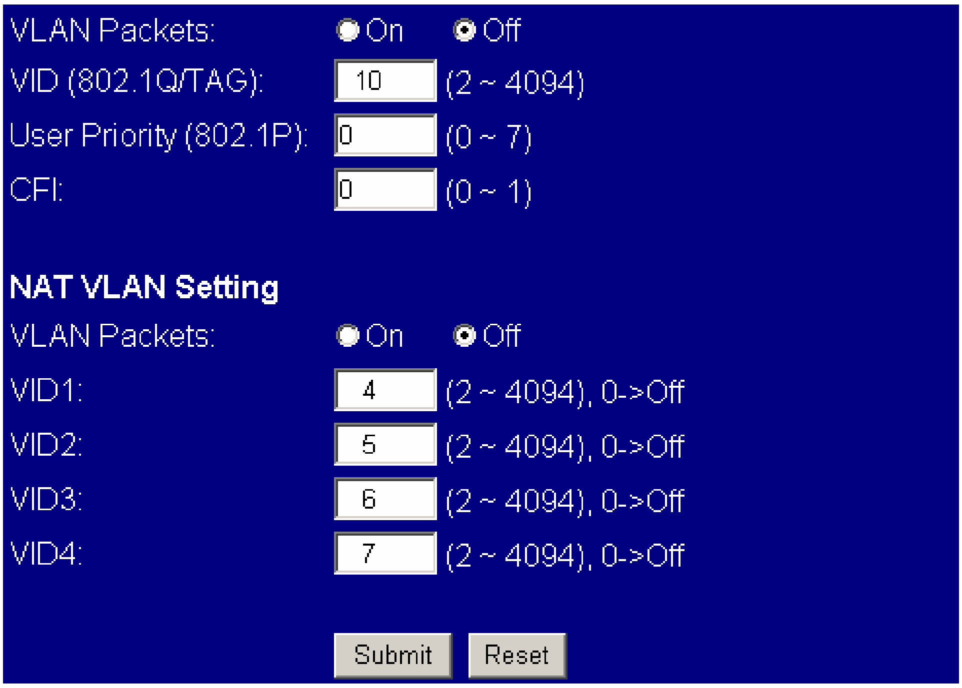


DDNS Setting	
Field Name	Description
DDNS	Set DDNS IP address, name and password to access. IPS-2000 Series is design to work with SIP, please check DDNS related information to use this function.
Host Name	Host Name
User Name	User Name
Password:	Password

E-mail Address	E-mail Address
DDNS Server	DDNS Server
DDNS Server List	DDNS Server List
Type	Select DDNS work mode.
Wild card	Select to use Wild card.
Back MX	Check on to use Back MX.
Off Line	Check on to use Off Line.

3.3.4 VLAN Setting

To configure the VLAN settings of the IPS-2000 Series.

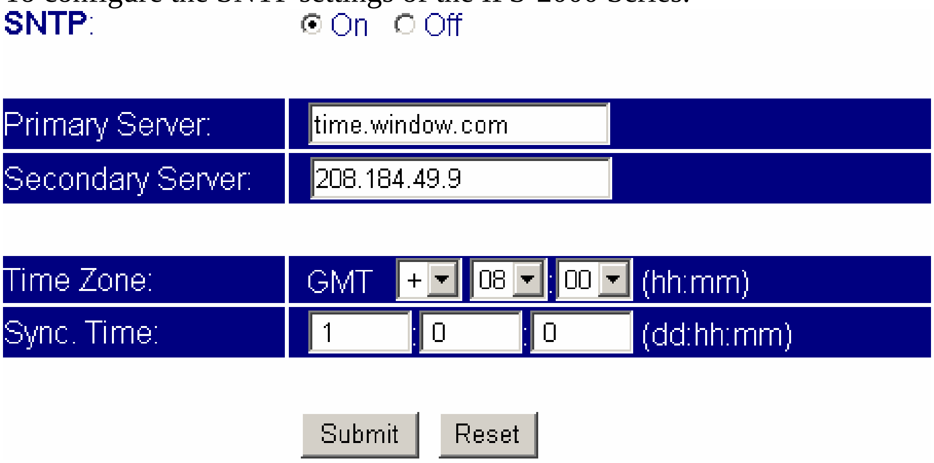


VLAN Setting	
Field Name	Description
VLAN Packets	Select to use VLAN Packets. If you enable the VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be check with the IP Address and the VID
VID	Set the VID.
User Priority	Defines user priority, giving eight (2^3) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually this will be defined by your service provider.
CFI	Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility reason between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port.

NAT VLAN Setting	
VLAN Packets	Select to use VLAN Packets. When you enable the VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with the IPS-2000 Series' IP address and the same VID will be accept by the IPS-2000 Series. If the incoming packets with the IPS-2000 Series' IP address but the different VID then the packets will be discard by the IPS-2000 Series. The Other incoming packets with different IP address will go through the LAN port to the PC.
VID1 ~ 4	Set the VID. When you set your device in NAT mode, IPS-2000 Series can help you to filter the wrong incoming packets. You can separate the other device connected behind the IPS-2000 series into 4 VLAN group. You can set different VID for these 4 groups. When the incoming packets go through the IPS-2000 Series' WAN port then the IPS-2000 Series will check the VID, if the packets is not going to the IPS-2000 Series (with the IPS-2000 Series' IP address and the correct VID), and the VID is not these four VID you set, then the packets will be discard by the IPS-2000 Series.

3.3.5 SNTP Setting

To configure the SNTP settings of the IPS-2000 Series.



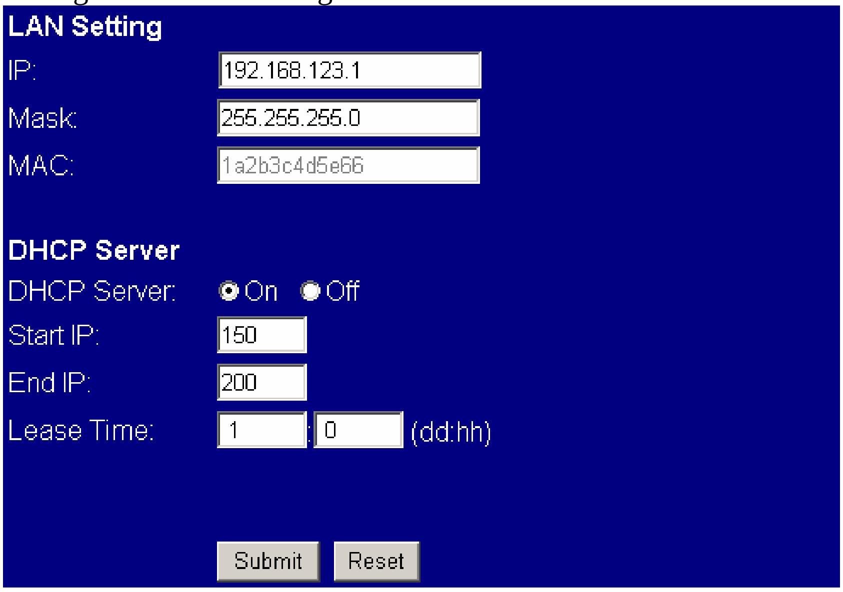
SNTP Setting	
Field Name	Description
SNTP	Set to use SNTP time Server, check on to use.
Primary Server	Primary SNTP Server.
Secondary Server:	Secondary SNTP Server.
Time Zone	Local time zone.
Sync. Time	Sync. Time. Input the Sync. Time.

3.4 NAT Router

PS. Only IPS-2000N Plus has NAT router function. IPS-2000 Plus does not have NAT router function.

3.4.1 NAT Setting

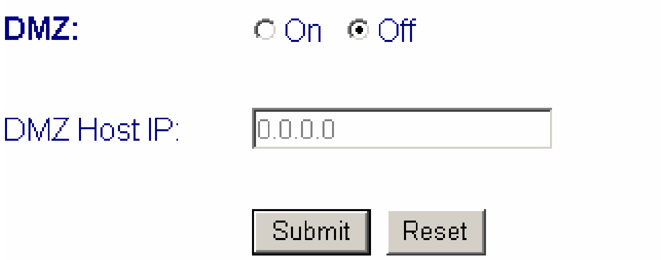
To configure the NAT settings of the IPS-2000N Plus.



LAN Setting	
Field Name	Description
IP	Local IP address. Internal local area network settings.
Mask	Local Subnet Mask.
MAC	Local MAC address.
DHCP Server	Set to use DHCP server, check on to use.2 A protocol that lets one device on a local network, known as a DHCP server, assign temporary IP addresses to the other network devices, typically computers.
Start IP	DHCP start IP.
End IP	DHCP end IP
Lease Time	DHCP lease time. Provided by DHCP server.

3.4.2 DMZ Setting

To configure the DMZ settings of the IPS-2000N Plus.

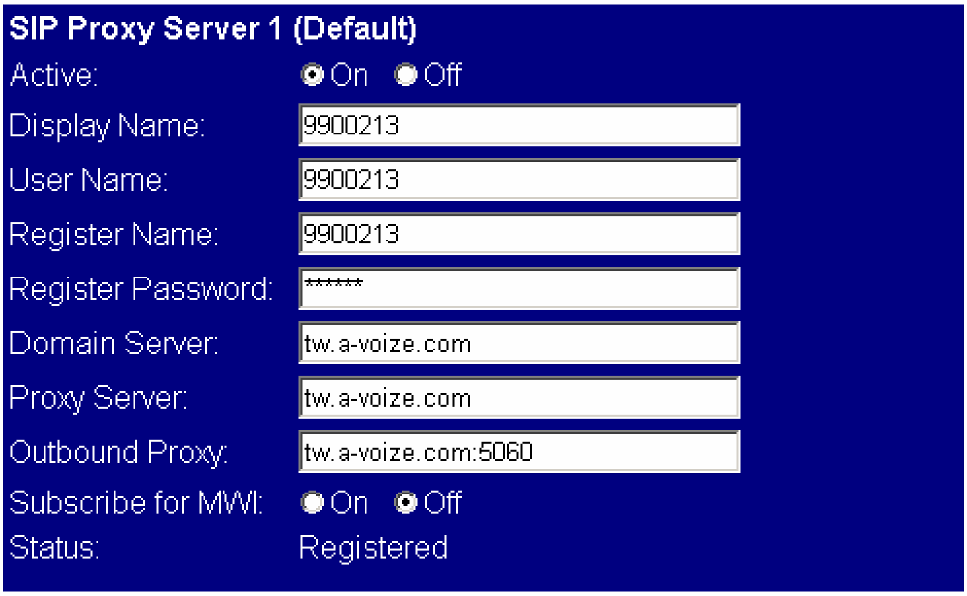


DMZ Setting	
Field Name	**Description**
DMZ	Select to use DMZ. Removes the Router's firewall protection from one PC, allowing it to be "seen" from the Internet.
DMZ Host IP	DMZ host IP address.

3.5 SIP setting

3.5.1 Service Domain

To configure the SIP service domain of IPS-2000 Series

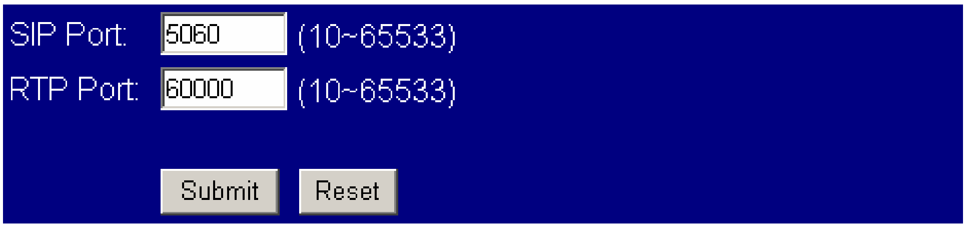


Service Domain	
Field Name	Description
Active	Make account active ● Up to 3 different SIP accounts can be registered and used in this page. Check Active on , and fill in the SIP account information. ● Dial-out number is the first number registered (the first pick is the number with "On" option). IF the first accounts could not be registered automatically switch to register on the next account. Any checked active and registered account can receive call.
Display Name	Display Name
User Name	Account user name or phone number here.
Register Name	Register name or phone number
Register Password	Register password
Domain Server	SIP server domain or IP
Proxy Server	SIP proxy server domain or IP
Outbound Proxy	Voice proxy server

Subscribe of MWI	When set to "On" a Subscribe for Message Waiting Indication will be sent periodically.
Status	Shows account register status

3.5.2 Port Setting

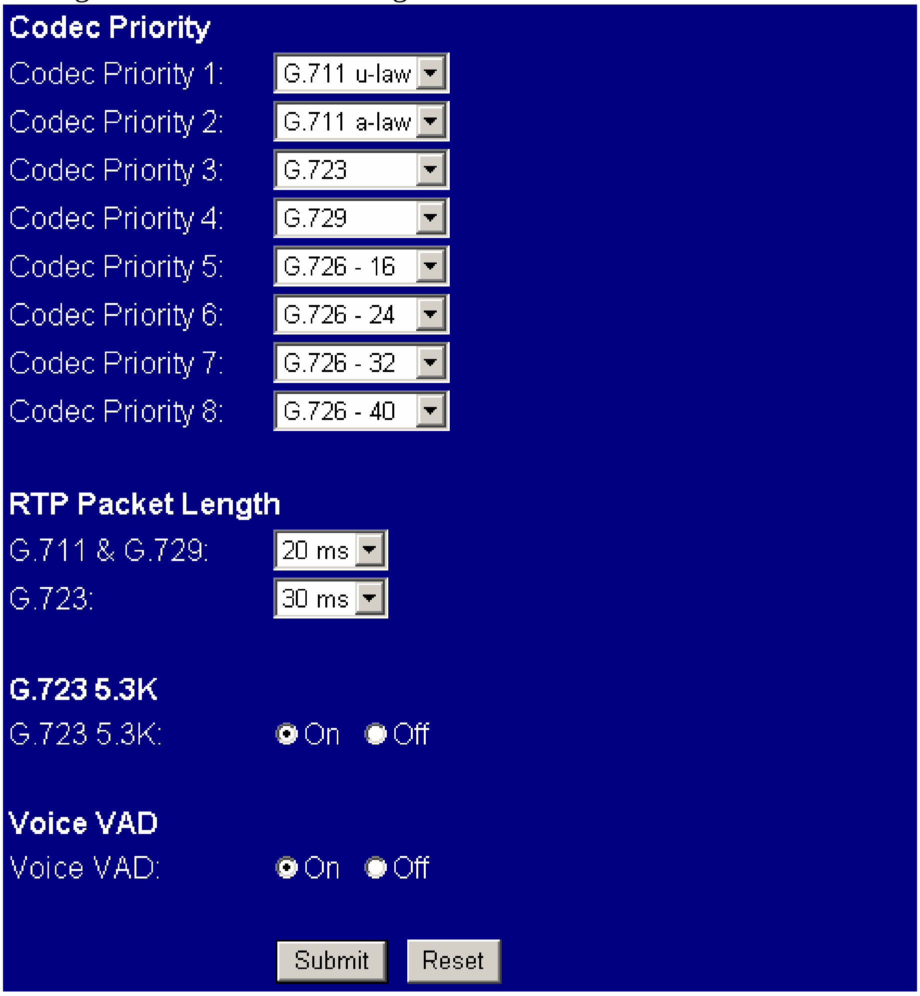
To configure the port mapping of the SIP service domain of your VoIP service provider.



Port Setting	
Field Name	Description
SIP Port	SIP register port, default to 5060
RTP Port	RTP port is for sending and receiving voice pocket. The port number can be between 10-65533, but it must be even number.

3.5.3 Codec Setting

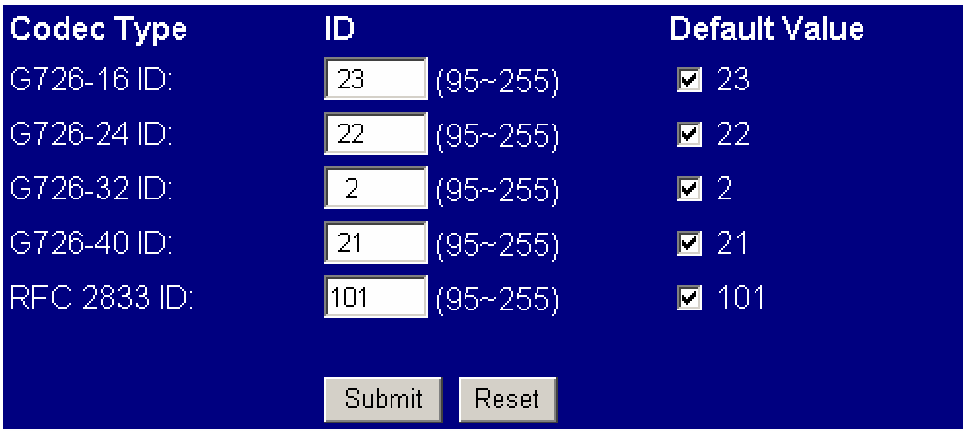
To configure the voice code settings of the IPS-2000 Series.



Codec Setting	
Field Name	Description
Codec Priority	Set priority of selected voice codec.
G.723 5.3K:	When use G.723 codec, check on to use 5.3K rate.
Voice VAD	Check on to use dynamic voice detection.

3.5.4 Codec ID

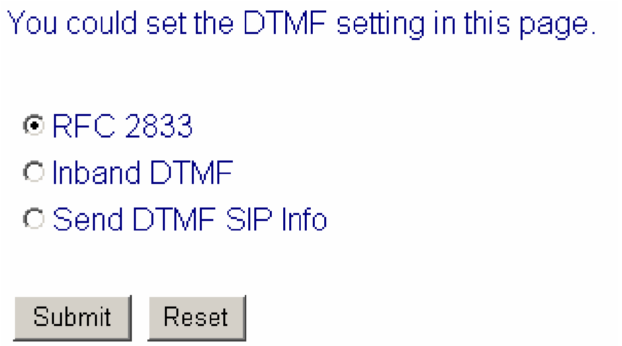
To configure the Codec ID of the IPS-2000 Series. Including all settings for G.726 codec, and setting for RFC2833.



Codec Type	ID		Default Value
G726-16 ID:	23	(95~255)	☑ 23
G726-24 ID:	22	(95~255)	☑ 22
G726-32 ID:	2	(95~255)	☑ 2
G726-40 ID:	21	(95~255)	☑ 21
RFC 2833 ID:	101	(95~255)	☑ 101

Submit Reset

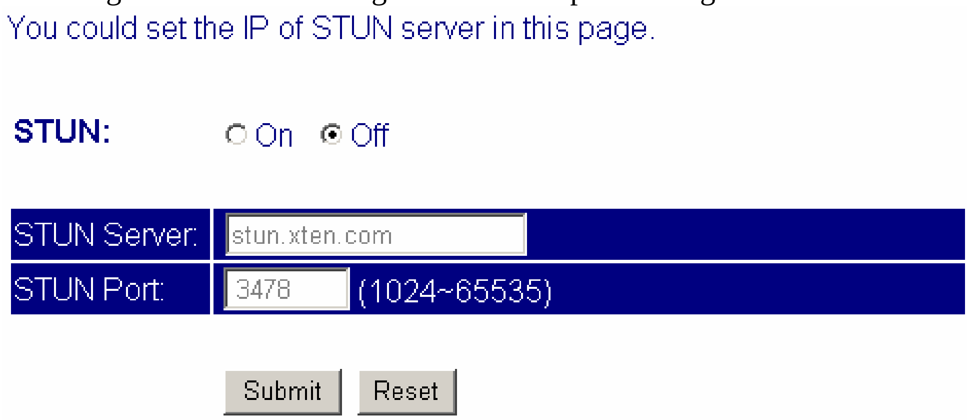
3.5.5 DTMF Setting



Inband DTMF and Send DTMF SIP Info selection, information provided by your ISP.

3.5.6 STUN Setting

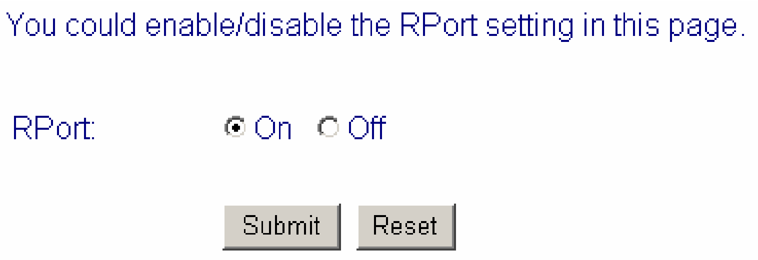
To configure the STUN settings for SIP NAT pass-through.



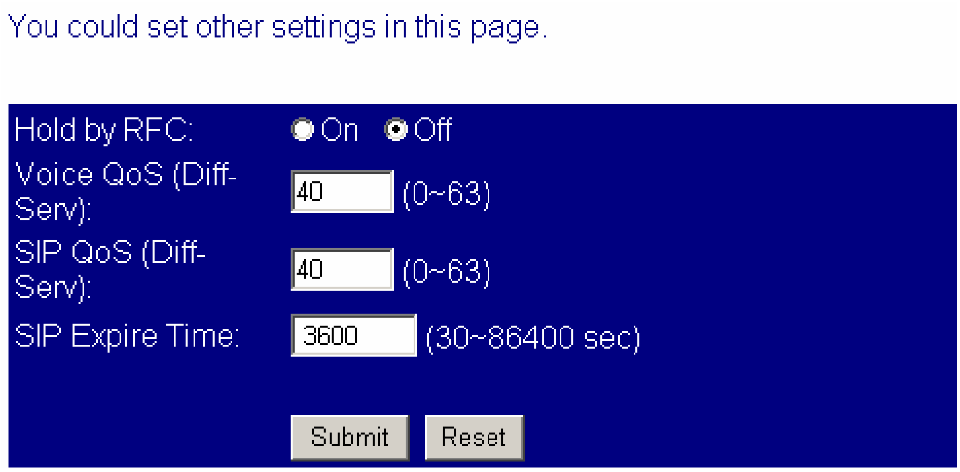
STUN Setting	
Field Name	Description
STUN	Check on to use STUN.
STUN Server	STUN server address.
STUN Port	STUN server port, default to 3478.

3.5.7 RPort Setting

Check on to use RPort.



3.5.8 Other Setting

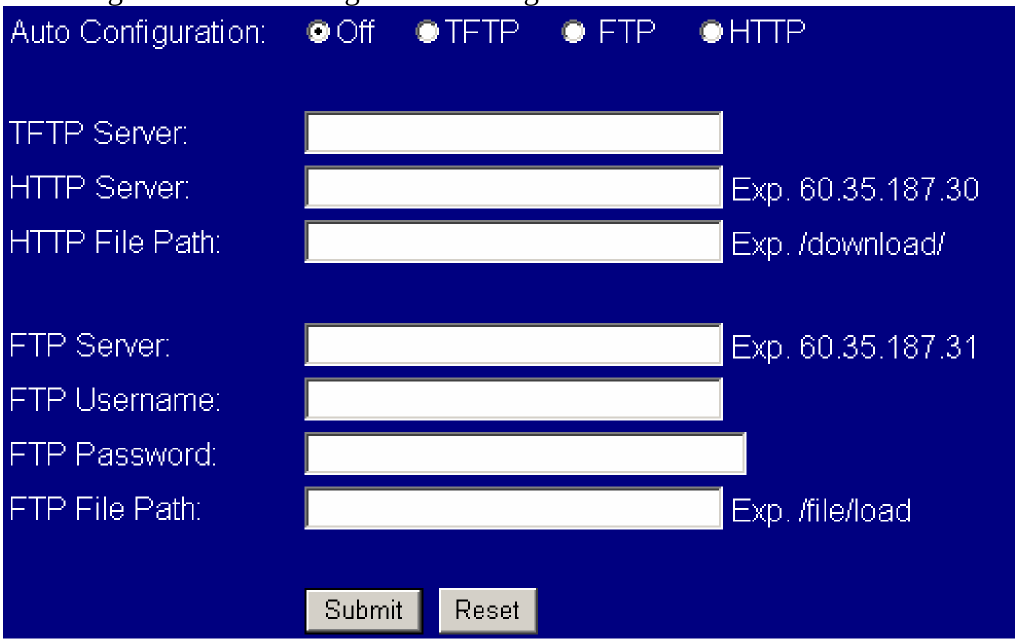


Ohter Setting	
Field Name	Description
Hold by RFC	Check on to use this function, this is provided by your ISP.
Voice QoS	Set voice pocket size, bigger number means larger pocket size.
Sip QoS	Set SIP pocket size.
SIP Expire Time	Set SIP pocket transfer time.

3.6 Others

3.6.1 Auto Config

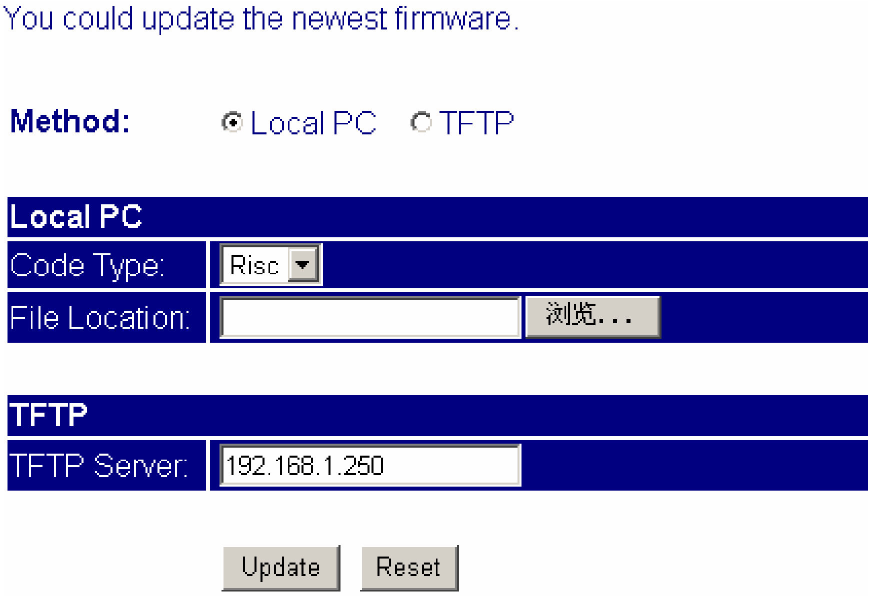
To configure the auto-configuration settings of IPS-2000 Series.



Auto Config	
Field Name	Description
Auto Configuration	Check on to use firmware auto update function.
TFTP Server	TFTP server address.
HTTP Server	HTTP server address.
HTTP File Path	HTTP File save Path.
FTP Server	FTP Server address.
FTP Username	FTP Username
FTP Password	FTP Password
FTP File Path	FTP File save Path

3.6.2 Firmware upgrade

To configure the firmware upgrade settings of the IPS-2000 Series.



Firmware upgrade	
Field Name	Description
Method	Select HTTP or TFTP to upgrade firmware.
Code Type	Select upgrade code type, Risc or DSP.
File Location	Select firmware file save location path.
TFTP Server	TFTP server address.

3.6.3 Auto update

To configure the Auto update settings of the IPS-2000 Series.



Auto Update	
Field Name	Description
Update via	Default is Off(Do not Auto Update). Automatically update environmental setting, with TFTP, FTP and HTTP three ways
Check new Firmware	Default Scheduling(In accordance with schedules). Checking Ways whether have new Version for the Gateway Power ON: Check whether have new Version for the Gateway at Power ON Scheduling: Check whether have new Version for the Gateway In accordance with schedules.
Scheduling (Date)	Default is 14 days, Every once in the days when the gateway check whether have new firmware Version for it Auto Update, the shortest one day, the Longest thirty days
Scheduling (Time)	Set time's interval of checking new firmware for the gateway, Each section is automatically generated. provides 4 Section for User's Selecting AM 00:00-05:59,AM 06:00-11:59, AM 12 : 00-17:59 AM 18:00 - 23:59. Default is AM00:00-05:59
Automatic Update	Automatically Updated, providing Notify only (notification messages only).

	Automatic (automatically updated) Default is Notify Only -Notify only: Does not implement the action of Updating, Only provide notification message to User. -Automatic: If Scheduling has set , Gateway could automatically update New Firmware version .But POWER ON ,need user to choose whether update the new Firmware .
Firmware File Prefix	Default Product model Inspection Firmware version of the product model data
Next update time	Next checking or Updating date and time

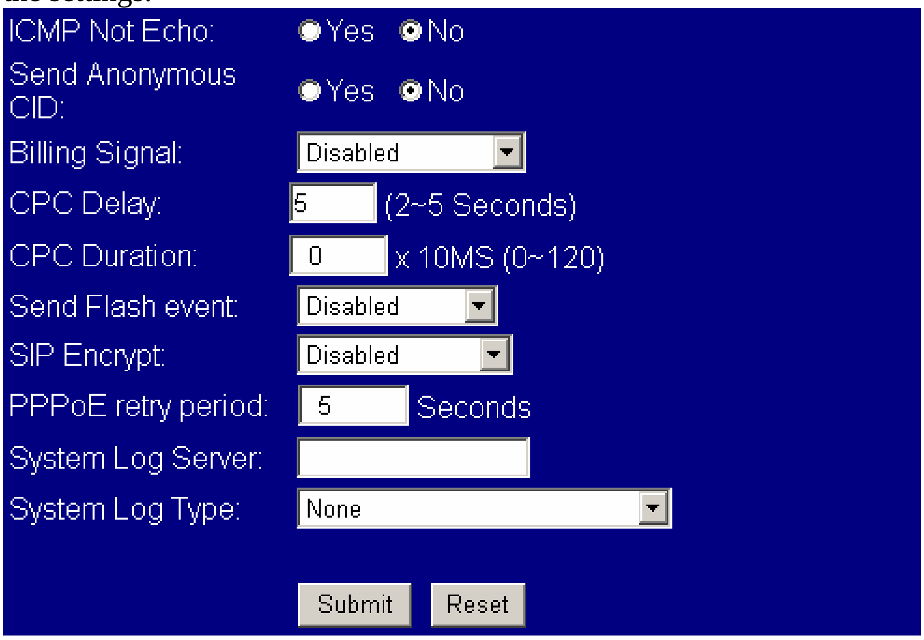
3.6.4 Default Setting

Reset to default setting.



3.6.5 Advanced Setting

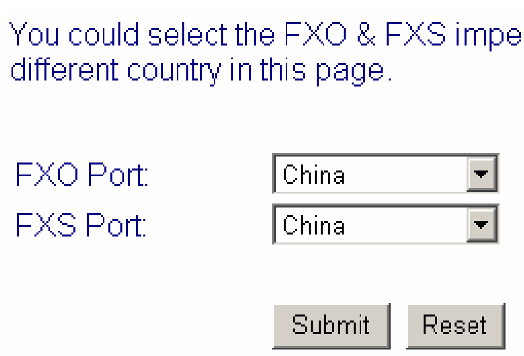
Select PTT type by country. Please check with your VoIP service provider if you would like to change the settings.



Advanced Setting

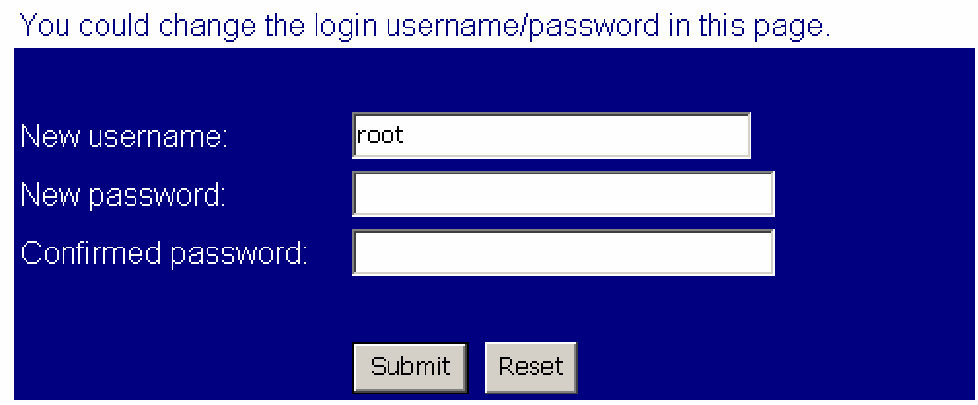
Field Name	Description
ICMP Not Echo	Default No, responding to the message of ping, if select “Yes” not responding to the message of ping.
Send Anonymous CID	Default No, Have no Call out security function, send information of the Gateway, if Select “Yes” do not send information of the Gateway
Bill signal	Default Disable. Turn on polarity reversal functions to notice Billing system. (Polarity Reversal, Tone_12K, Tone_16K). Support FXS Port
CPC Delay	Default 2.When received the hang-up signal, how many seconds need to wait to drop the Voltage to Zero. Support FXS Port.
CPC Duration	Default time is 0ms.(No voltage dropped) When voltage dropped to Zero, how many ms need to continue. Support FXS Port.
Send Flash event	Default Disable , User could Select DTMF Event or SIP Info to Send flash event.
SIP Encrypt	Default Disable , IPS-2000 Plus have INFINET, AVS, WALKERSUN1. WALKERSUN2 four format for SIP encryption. This service is provided by use environment.
PPPoE retry period	Default is 5 Seconds. Set interval is [5~255]. When PPPoE dial failure, how many seconds need to wait before redial.
System Log Server	Provide system information which to store Log server address at the System.
System Log Type	Default None (Disable).System Log information type. Provided None, Call Statistics, General Debug, Call Statistics + General Debug, SIP Debug, Call Statistics + SIP Debug, General Debug + SIP Debug, All.

3.6.6 FXO & FXS port



3.6.7 System Auth

To configure the user logins of the IPS-2000 Series.



System Auth	
Field Name	Description
New username	System user name for IPS-2000 Series setting login.
New password	Set new password.
Confirmed password	Repeat new password to confirm.

3.7 Save Change

Click "Save" to save all changed settings, then IPS-2000 Series will restart.

3.8 Reboot

Click "Reboot" button to reboot the system.



4. Product Specifications

Voice Interface	
Call Control Protocol	SIP v1 (RFC 2543), v2 (RFC 3261)
Voice Compression	G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A (8k bit/s, CS-ACELP), G.729B (adds VAD & CNG to G.729)
Delayed (Point to Point)	< 100ms
Echo Cancellation	Packet Loss Compensation, Adaptive Jitter Buffer, VAD (Voice activity detection), CNG (Comfortable noise generator), AEC (Acoustic echo canceller), G.165 (LEC, Line echo canceller), G.168 (EC, Digital network echo canceller)
Flow of the Average	5.3K(G.723.1) ~ 64K(G.711) bps
Other Support	In-Band DTMF, Out-of Band DTMF, SIP Info
LAN Interface	
Interface Spec	10/100Mbps Fast Ethernet
Interface Connector	RJ-45 Connector
Management	Web Browser
IP Address	Static IP / DHCP Client / PPPoE Client / TFTP Client / HTTP Server / DNS Client / Telnet / SNTP / RTP / RTCP / DDNS
Firmware Update	HTTP / TFTP / FTP
Call Features	Call Hold / Call Waiting / Call Forward / Call Transfer / Caller ID / Call Block / 3-way Conference
Other Specs.	
Input AC/DC Range	100 – 240VAC, 50 – 60Hz, 12VDC
Power Consumption	6W
Operation Environment	Working Temperature : 0 ~ 40℃ (32° ~ 104°F)
	Storage Temperature : -30 ~ 65℃ (-22° ~ 149°F)
	Relative Humidity: 10 ~ 95% Non-Condensing
Weight	288g
Certificates	CE / FCC
Dimensions	165mm *110 mm *35 mm
Others	140 Phone Contacts
	IVR in English version
	NAT Pass-through (STUN / uPnP / R-Port)
	Networking Status, Firmware Update, No Answer Forward, Busy Forward, All Forward, Web Management, LED indicators

5. Frequently Asked Questions (FAQ)

1. **How to confirm the IPS-2000 Series is successfully registered?**

   If IPS-2000 Series is successfully registered, the register indicator will be on. If the light is not on means the registration failed. Normally the IPS-2000 Series registration process takes about 2 minutes to be completed.

2. **After connected to a power outlet, the power indicator is on, but WAN(LAN2) indicator is not on, why?**

   Please check your cable connector if it is loose. Or else, please check your Internet connection with the server.

3. **Can I dial the phone if a blackout occurs?**

   If the power is cut off , the IPS-2000 Series do not have power supply which means the Gateway would not be able to receive and make phone calls. But the PSTN phone line is able to function as normal to receive and make calls.

4. **Does it support PSTN inbound call?**

   Yes, it supports PSTN Inbound Call. Inbound Transit means that users use a PSTN line to make calls to IP telephone which connected a PSTN line, and this call will be forwarded to another Gateway through IVR answer function.

   How to Dial An Inbound Transit Call:
   Dial a call to your IP telephone through the PSTN line, you will hear a dial tone after the phone rings (3-9) times, and dial the SIP account number. If PIN code is set you need to input the PIN code before dialing the SIP number.

5. **How to make a PSTN phone call?**

   If Default is PSTN mode, pick up the phone, after you hear a dialing tone then dial a PSTN number. If Default is IP mode, pick up the phone, press the default “*” sign to switch to PSTN mode, once you hear a dial tone, you can dial a PSTN number.

6. **How to make a call to IP phone number?**

   If Default is PSTN mode, pick up the phone, press the default “*” sign to switch to IP mode, once you hear a dial tone, you can dial the number following by a “#” sign.

7. **How to use the “Hold” function?**

   When you are on a call, press the “hold” key or swap key to keep the called party on hold.

8. How to use the Call Waiting function?

When you are on a call, you will hear an alert tone means you receive a second incoming call. If you want to answer the new call, press “hold” key or “Swap” key to switch to the new party.

9. How to use Call Transfer?

Blind Transfer
When you are on a call with A and want to transfer the call to B, press “flash” or “hold” key to keep A, then press #510# and dial the B party’s number followed by a “#” sign, the call will transfer to B.

Attendant Transfer
When you are on a call with A and want to transfer the call to B, press “flash” or “hold” key to keep A, then press #511# and dial the B party’s number followed by a “#” sign. When B is connected, you can talk with B, after you hang up ,A will connect C.

10. How to make a “3-way Conference” call?

When you are on a call with A and want to invite B to the conference, press “flash” or “hold” key to keep A, then press #512# and dial the B party’s number followed by a “#” sign. When B is connected, press “flash” or “hold” key and will connect the 3-way conference call.

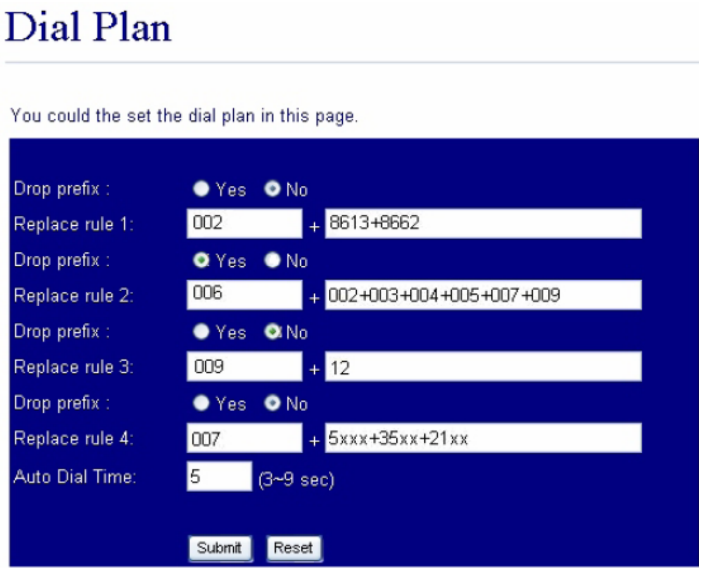
11. How to use Speed Dial?

First you have to enter the phone numbers to be stored in the phone book list. Then to place a call on the speed dial list, press “*” sign (switch to IP line), dial the stored speed dial number followed by a “#” sign.
Note: the speed dial function can only be used on IP to IP calls.

12. What types of telephone devices does IPS-2000 Series supports?

The IPS-2000 Series supports all phones that are international standard, including traditional phone set and DECT (Digital Enhanced Cordless Telecommunication) wireless phone set. It can support most of the phone functions. Please refer to your phone’s user guide for more information.

13. Dial plan set example



Example 1: Drop prefix: No, Replace rule 1: 002, 8613+8662.

Explain 1：When the dialing number with a prefix of 8613, 002 will automatically add before all the numbers. Allocated to the actual numbers are [002+8613+xxx].

Explain 2：When the dialing number with a prefix of 8662, 002 will automatically add before all the numbers. Allocated to the actual numbers are [002+8662+xxx].

Example 2：Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009.

Explain 1：When the dialing number with a prefix of 002, 006 will replace 002, and your actual calling is [006+xxx].

Explain 2：When the dialing number with a prefix of 003, 006 will replace 003, and your actual calling is [006+xxx].

Example 3: Drop prefix: No, Replace rule 3: 009, 12.

Explain 1：When the dial numbers beginning with 12, before all the numbers will automatically add 009.Allocated to the actual numbers are [009+12+xxx].

Example 4: Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx.

Explain 1：When the dial numbers beginning with 5, and follow with 3 numbers, 007 will automatically add before all of the numbers. Allocated to the actual numbers are [007+5xxx].

Explain 2：When the dial numbers beginning with 534, and follow with 2 numbers, it isn't suitable for rules. Allocated to the actual numbers are [534].

Explain 3：When the dial numbers beginning with 35, and follow with 2 numbers, 007 will automatically add before all of the numbers. Allocated to the actual numbers are [007+35xx].

Explain 4：When you dial 358822, the numbers beginning with 35 , but followed by 4 numbers , so it isn't suitable for rules. Allocated to the actual numbers is [358822].

14. How to switch with multi-account?

If your IPS-2000 Series has also set 2-3 SIP platform accounts, if switched to the platform may wish to use the following method:
For example IPS-2000 Series has set three SIP platforms, A is default account, and you want to switch to B platforms:

- Pick up the phone and switch to IP line
- Press “2*”
- Hook on the phone
- Now you can use B account to dial.

If want to use C platform:

- Pick up the phone and switch to IP line
- Press “3*”
- Hook on the phone
- Now you can use C account to dial.

If want to use A platform:

- Pick up the phone and switch to IP line
- Press “1*”
- Hook on the phone
- Now you can use A account to dial.

If IPS-2000 Series reboot, then the default platform is A.

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SuZhou Plant
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Development Zone,Wujiang City,Jiangsu Province
215200,China

The company reserves the rights to continuously improve the product at any time and support will be based upon the latest release of the product.
Please visit our website at www.artdio.net to download the latest driver and user's manual.

1. 產品介紹

1.1 包裝內容

IPS-2000 Series 包含了以下配備：

- IPS-2000 Series
- 電源供應器
- RJ -45 網路線
- 產品使用說明書

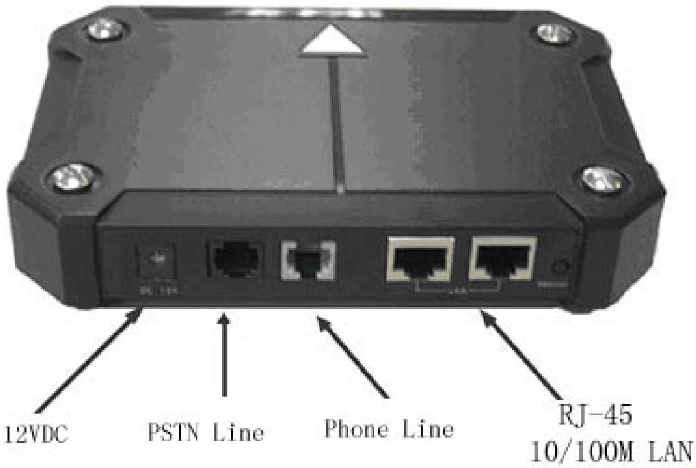
1.2 產品特性

- 適用於普通話機與網路話機之整合與備援
- 支援 SIP v1 (RFC 2543),SIP v2(RFC 3261),TCP/UDP/IP, RTP/RTCP, HTTP,ICMP,ARP/RARP,DNS,DHCP（包括使用者端與服務端）, SNTP, PPPoE, STUN, TFTP 等網路協定
- 支援 FXS 電話擴充及 FXO 局端電信網路
- 強大的數位信號處理能力確保高品質語音；先進的抖動控制,以及防止資料封包遺漏技術
- 支援多種編解碼協定,如：G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A, G.729B
- 支援來電等候,來電等待,來電轉移,來電轉接,來電拒接,音頻撥號,3 方會議等等
- 支援語音調節,快速撥號,電話簿
- 支援靜音抑制,（VAD）靜音檢測,（CNG）背景雜訊生成,回波抵消（AEC）, G.165(LEC,線發回聲消除),G.168(EC, 數傳網路回聲消除)
- 支援 DTMF 功能：In-Band DTMF, Out-of Band DTMF, SIP Info
- 支援 QoS：QoS support
- 支援路由功能
- 支援網頁瀏覽器,遠端登入控制,互動語音
- 支援多重使用者模式
- 支援使用 HTTP/TFTP 協定軟體升級
- 小巧輕便的設計便於旅行使用
- 輕便的通用電源

1.3 產品示意圖

此產品依需求不同而提供平放式或直立式之設計

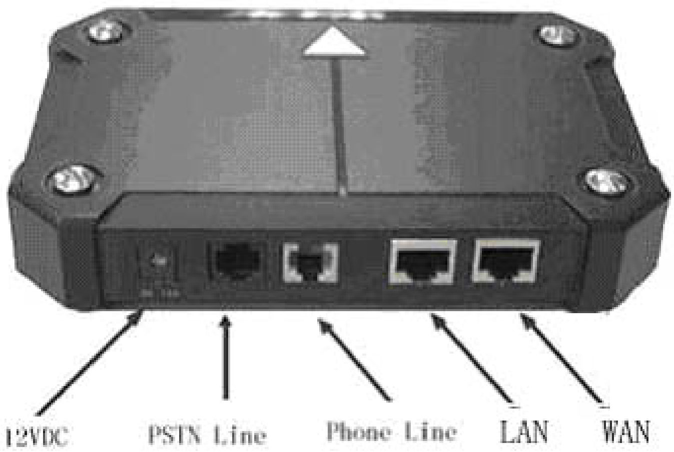
如圖所示：



平放圖 （適合 IPS-2000 Plus）



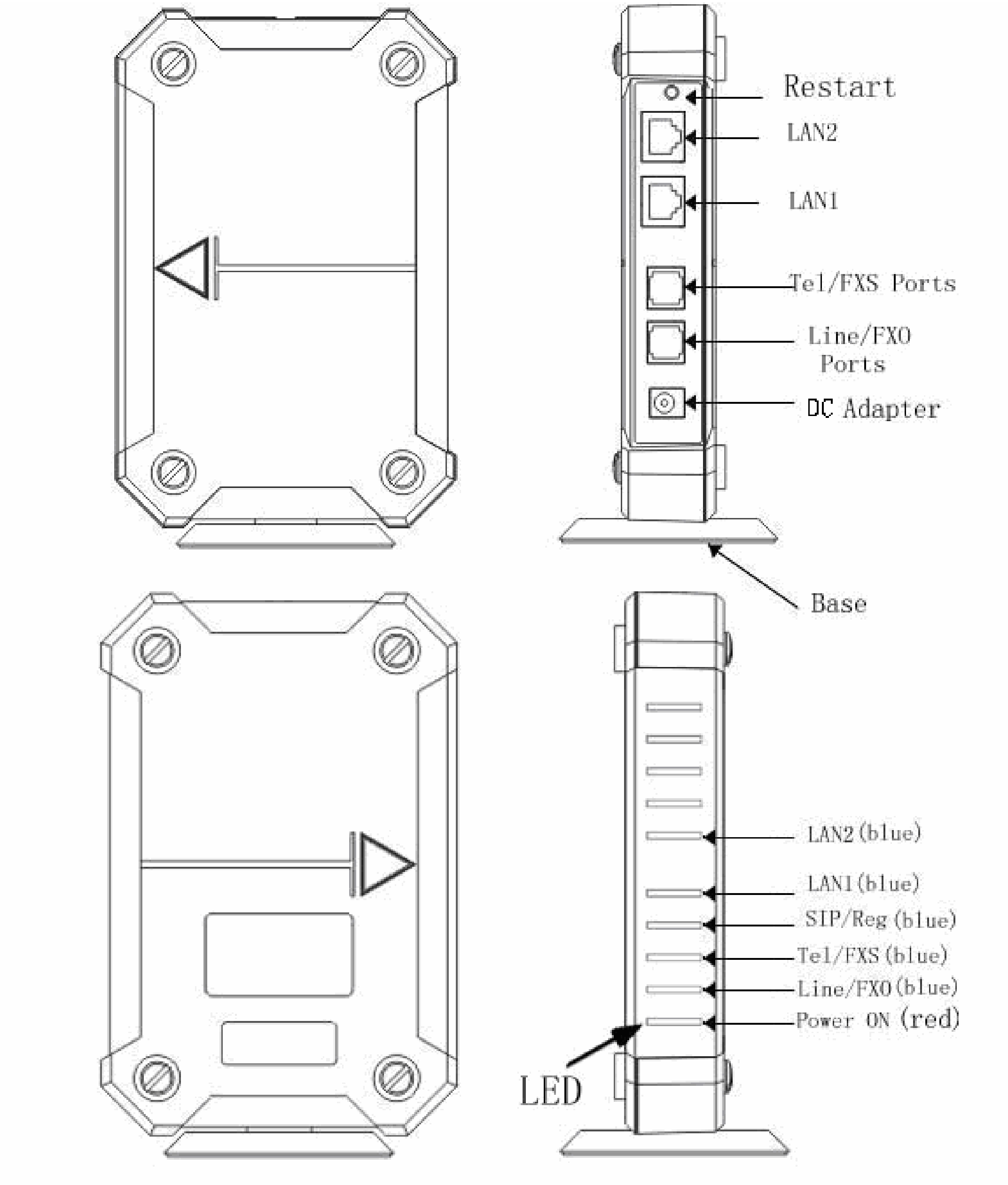
直立圖



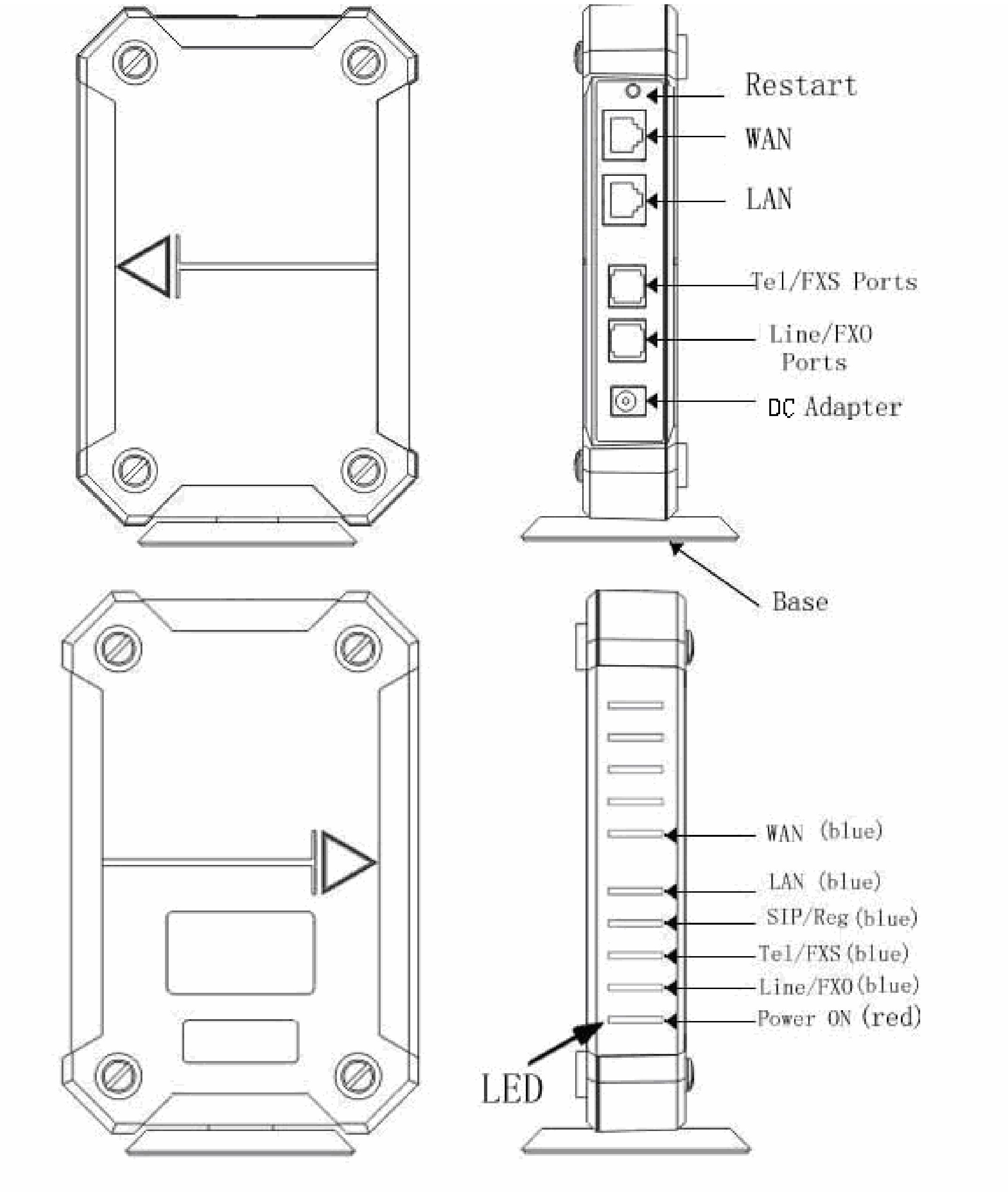
平放圖 （適合 IPS-2000N Plus）

2. 快速安裝

2.1 介面說明（適合 IPS-2000 Plus）

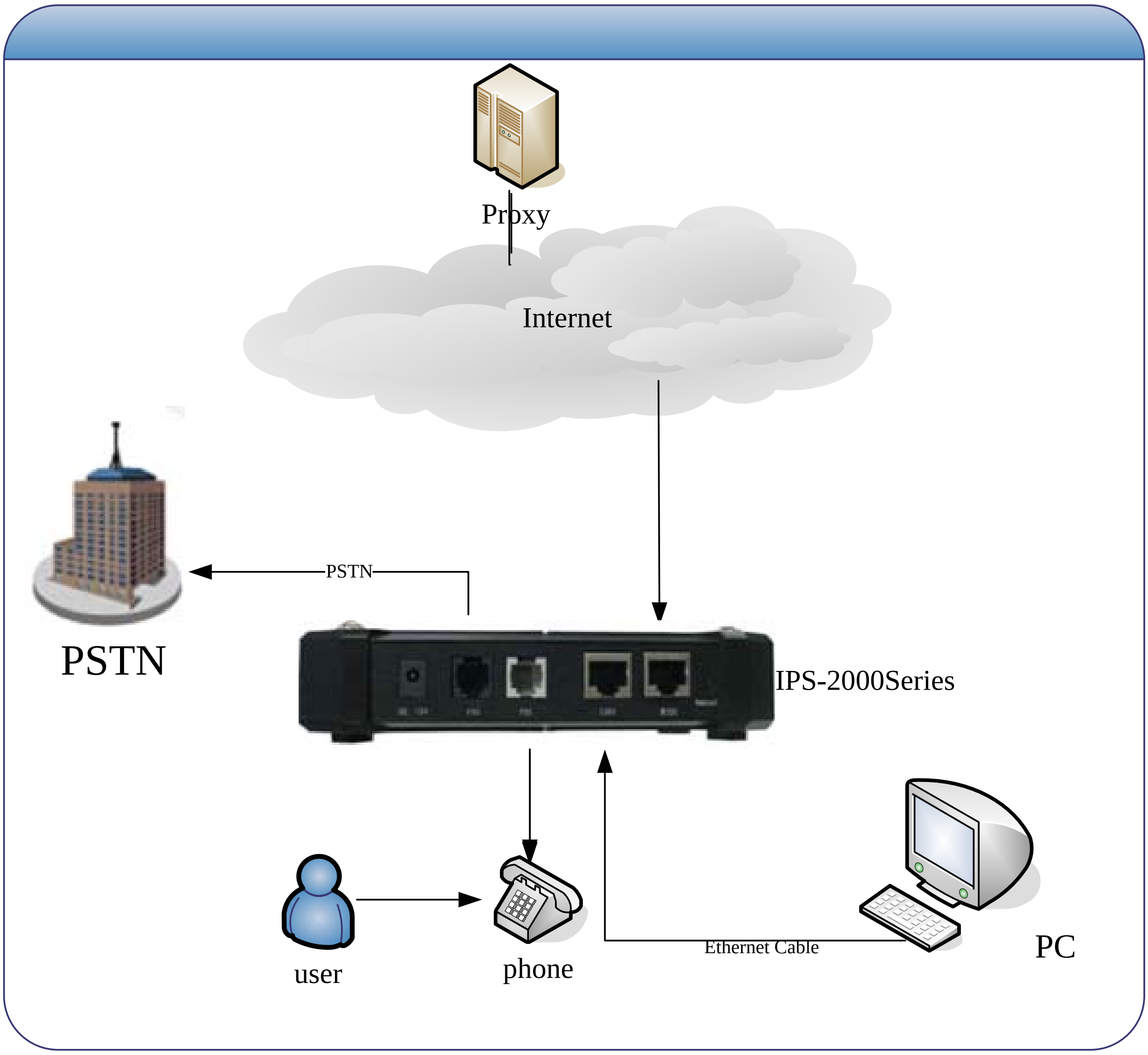


2.2 介面說明（適合 IPS-2000N Plus）



2.3 設備安裝

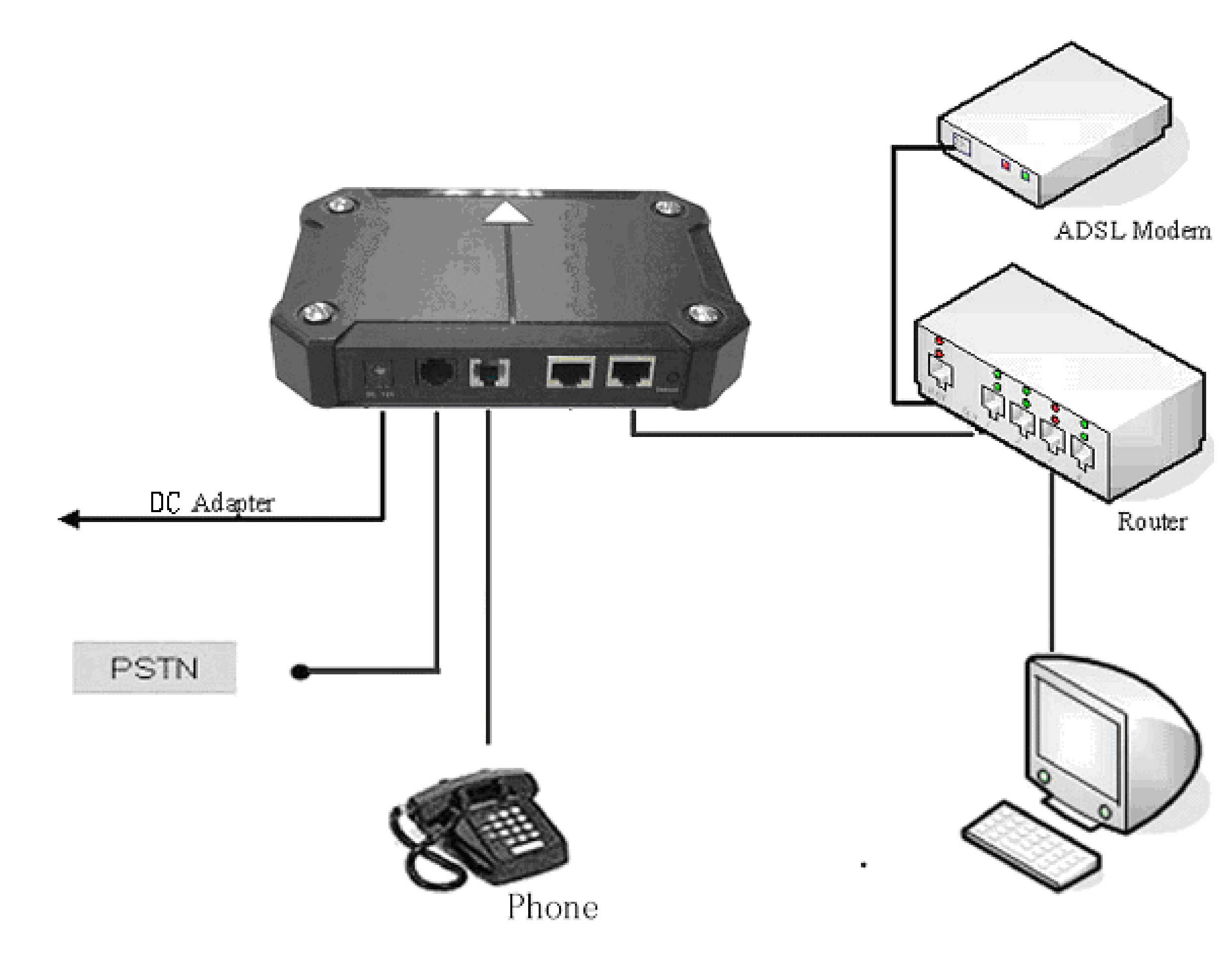
網路設定（下圖 IPS-2000 Series 網路拓撲圖,可用於一般使用者）



- 環境設定（適合 IPS-2000 Series）

ISP 環境	建議接法
有 IP 分享器的接法	此接法是當您的環境有使用 IP 分享器時,而且 IP 分享器只提供一個網路介面,所以亦有集線器(HUB)的接法。

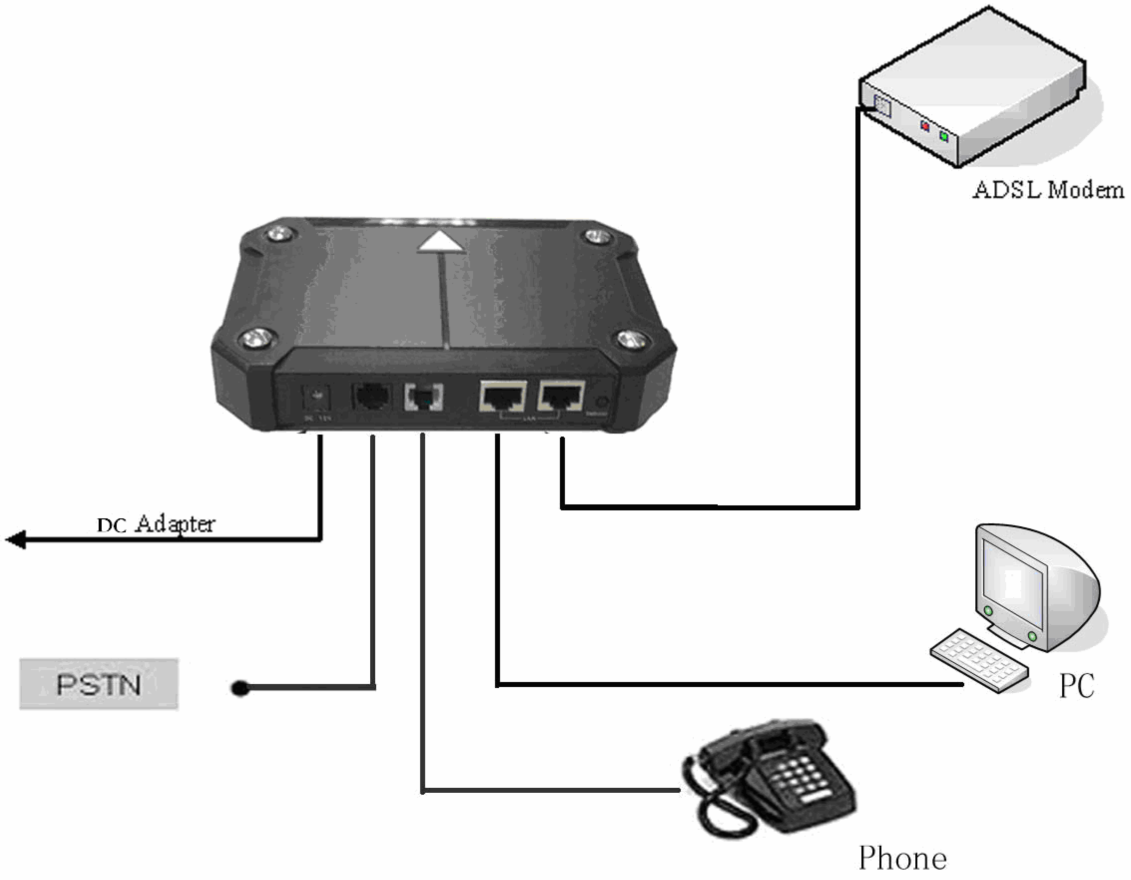
IPS-2000 Series 的連線概念圖如下所示,將 RJ-45 一端連接至您 IPS-2000 Series 的 WAN 埠,另一端連接至 IP 分享器的 LAN 埠。PC 或其他上網設備,可以接在 IP 分享器上。



- 環境設定（適合 IPS-2000 Series）

ISP 環境	建議接法
無 IP 分享器的接法（一般使用方法）	此接法將 IPS-2000 Series 置於 ADSL 數據機及 PC 之間,最適合只有一部 PC 的 ADSL 使用者利用 PPPoE 上網。但是 ISP 必須允許足夠之 IP 位址以供同時上網。

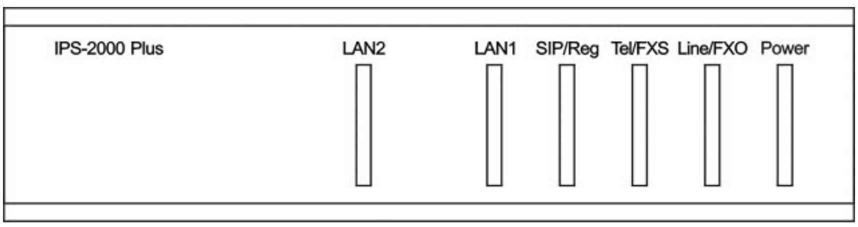
將 RJ-45 一端連接至您 IPS-2000 Series 的 WAN(LAN2) 埠,另一端連接至您的 ADSL Modem 上。
IPS-2000 Series 上的 LAN(LAN1) 埠,則可用來接 PC 或其他上網設備。



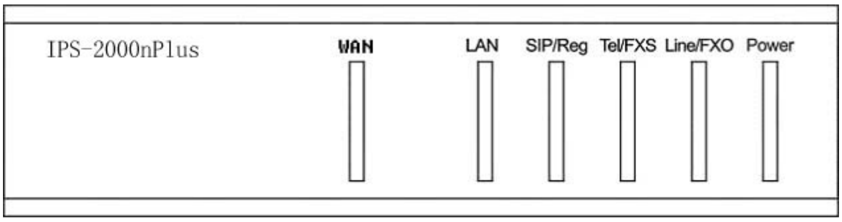
- 如果不知道目前所在網路環境屬於那種形態,請向 ISP 服務商查詢。

2.4 註冊登入

2.4.1 STATUS（狀態指示）燈號說明(適合 IPS-2000 Plus)



2.4.2 STATUS（狀態指示）燈號說明(適合 IPS-2000N Plus)



2.3 圖示

燈號	說明
Power ON(紅色)	紅燈亮,電源正常供電
Line/FXO(藍色)	藍燈閃,PSTN 線路運作中
Tel/FXS（藍色）	藍燈閃,電話運作中,或已經提起話筒
SIP/Reg(藍色)	藍燈亮,註冊登入成功
LAN(LAN1)（藍色）	藍燈亮起,LAN(LAN1)線路正常連接
WAN(LAN2)（藍色）	藍燈亮起,WAN(LAN2)線路正常連接

2.4.3 快速啓動註冊說明

步驟 1 快速啓動

接入電源,電源燈亮起,設備正常啓動,緊接著是 Tel/FXS 和 SIP/Reg 指示燈跳動閃爍,然後 LAN(LAN1)燈和 WAN(LAN2)（有設備接入）燈亮起,表示您的設備已正常啓動並連接到了網路。

步驟 2 設定網路

IPS-2000 Series 使用話機按鍵設定和修改 IP 位址的操作方法:

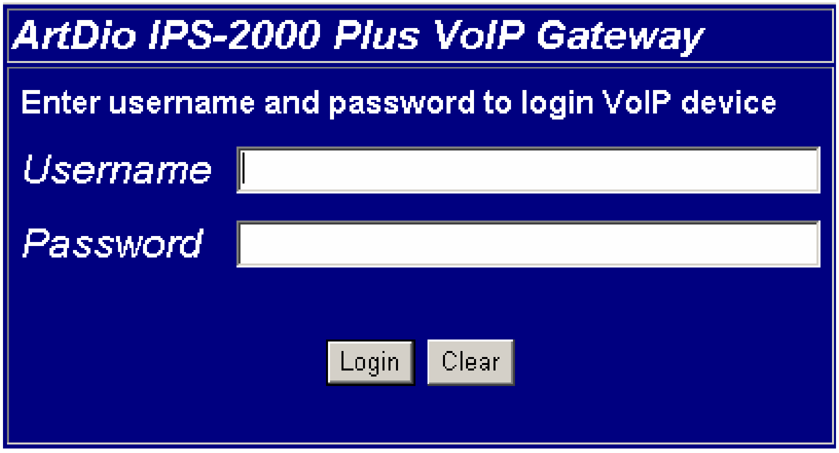
1. 修改 IP 可以按下#112 XXX*XXX*XXX*XXX#
2. 修改 Mask IP 可以按下#113 XXX*XXX*XXX*XXX#
3. 修改 Gateway IP 可以按下#114 XXX*XXX*XXX*XXX#
4. 修改 DNS Server 可以按下#115 XXX*XXX*XXX*XXX#

IPS-2000 Series 的預設 IP 爲 192.168.1.100,如需要把 IP 位址改爲 192.168.1.12,則可以依次按下 #112192*168*001*012#,重新啓動後修改成功。使用者也可以把設備設定成自動取得 IP 狀態, 也就是 DHCP 的方式以自動取得 IP。只要拿起話筒或按下免持鍵,輸入#111#,設備重新啓動後自動取得 IP 位址。

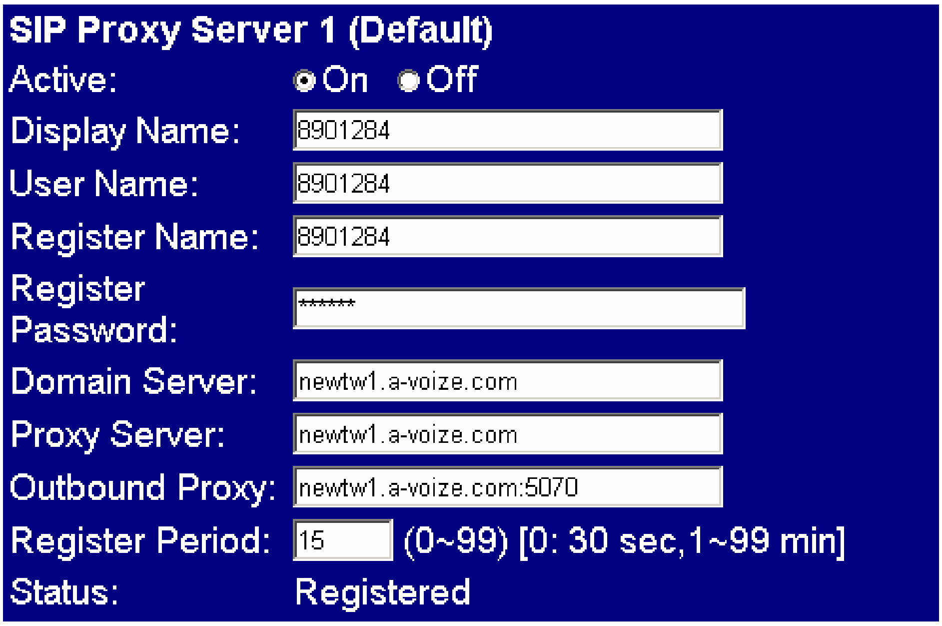
步驟 3 快速登入註冊

啓動成功後,拿起話筒或按下免持鍵,按下#126#後，可以聽到語音 IP 提示,然後打開網頁瀏覽器,在位址欄輸入 http://IPS-2000 Series IP:9999 (比如您的設備 IP 爲 192.168.1.100,則在位址欄輸入 http://192.168.1.100:9999),進入到網頁設定登錄頁(如下圖所示),在 Username 處輸入使用者名稱 root

和在 Password 處輸入密碼 test（預設使用者名稱和密碼爲 root 和 test,使用者可自行修改）。



進入到網頁設定裏,把滑鼠移動到 SIP Setting 項,彈出下拉選單,選擇 Service Domain,在 Service Domain Setting 各欄位裏填寫入相關註冊資訊。以註冊 newtw1.a-voize.com 平臺爲例,其埠號爲 5070,使用者可以參照以下圖列設定您的 IPS-2000 Series。



設定完後按下 Submit 按鈕儲存您的網頁設定,然後按下網頁左邊方框的 Save change 項,進入儲存頁面,按下 Save 按鈕儲存所有設定,設備重新啓動,設定成功。

*註: 註冊平臺, SIP Service Domain 等設定值, 需由 VoIP 電信服務商提供相關之設定值。

2.5 電話機狀態設定

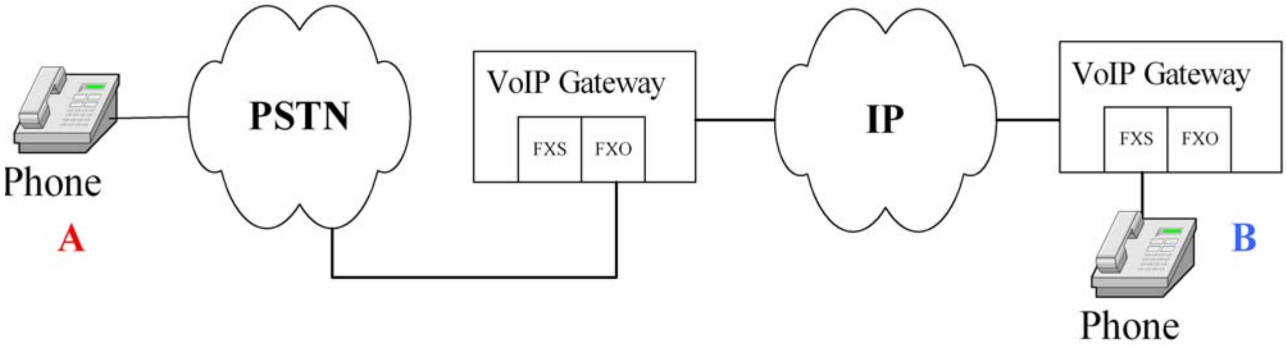
在話機上按照以下操作,可以讀取或改變其狀態。

切換 IP 狀態(選擇 VoIP 或 PSTN 撥出電話)	* (PSTN 優先) 0 * (IP 優先)	
重新啓動	#195#	
回復出廠預設値	#198#	可回復到出廠預設値
讀取 LAN 埠 IP	#120#	可讀取本機 LAN 埠 IP 位址
讀取 IP 類型	#121#	可讀取本機 IP 類型
讀取 Mask IP	#123#	讀取子網路遮罩 IP 位址
讀取 Gateway IP	#124#	讀取預設閘道 IP 位址
讀取 DNS IP	#125#	讀取功能變數名稱位址 IP
讀取 WAN 埠 IP	#126#	可讀取本機 WAN 埠 IP 位址
讀取軟體版本	#128#	
設定成 DHCP 狀態	#111#	設定自動取得 IP 狀態
修改固定 IP	#112XXX*XXX*XXX*XXX#	一個 X 代表一個數字
修改 Mask IP	#113XXX*XXX*XXX*XXX#	
修改 Gateway IP	#114XXX*XXX*XXX*XXX#	
修改 DNS Server	#115XXX*XXX*XXX*XXX#	
設定語音編解碼優先順序	#130+[1-8]# (1)G711 u-Law, (2)G711 a-Law, (3)G723.1, (4)G729a ,(5)G726 16K, (6)G726 24K, (7)G726 32K,(8) G726 40K	
設定聽筒聲音大小	#131+[00~15]#	預設設定爲 10
設定話筒聲音大小	#132+[00~12]#	預設設定爲 10

2.6 IPS-2000 Series 的上下車功能

上車功能就是由 PSTN 透過 VoIP Gateway 的 FXO 轉撥到 IP 網路上的 VoIP 的 FXS。如下圖所示(A->B)

下車功能就是由透過 VoIP Gateway 的 FXO 轉撥到 PSTN 的電話號碼。如下圖所示(B->A)



2.7 IPS-2000 Series 上下車的操作步驟

步驟 1 註冊帳號

首先確認 IPS-2000 Series 已經註冊有一個 SIP 號碼,並且也有一個 PSTN 電話號碼。

步驟 2 開啓上下車

設定 Phone setting 裏的 Auto Answer 選擇項爲 on。Auto Answer Counter 則表示將有上下車通話時 IPS-2000 Series 會震鈴數聲,若 Auto Answer Counter 爲 0 則 IPS-2000 Series 不會震鈴直接進入上下車狀態。

上車使用方法

- 直接撥打 IPS-2000 Series FXO 所接的 **PSTN** 外線,聽到數聲震鈴聲(此時 IPS-2000 Series 所接話機亦會跟著震鈴)後會出現第二次撥號音,再轉撥所要撥打的電話。
- 若有設定 **PIN CODE** 時,在撥通後會聽到數聲震鈴聲(此時 IPS-2000 Series 所接話機亦會跟著震鈴),接著數聲急促的嘟嘟聲,此時按 **Pin code#**後就會聽到第二次撥號音,再撥打目的地電話。

下車使用方法

- 撥打到 IPS-2000 Series 的 **SIP** 門號,聽到數聲震鈴聲(此時 IPS-2000 Series 所接話機亦會跟著震鈴)後會出現第二次撥號音,再轉撥所要撥打下車的電話。
- 若有設定 **PIN CODE** 時,在撥打 IPS-2000 Series 的 **SIP** 門號撥通後會聽到數聲震鈴聲(此時 IPS-2000 Series 所接話機亦會跟著震鈴),接著數聲急促的嘟嘟聲,此時按 **Pin code#**後就會聽到第二次撥號音,再撥打目的地電話。

3. 網頁設定

拿起話機話筒,於話機按鍵按下#126#就能聽到話機報出 IP 位址的語音,然後再請透過電腦與此 IPS-2000 Series 完成網路之連接，並於電腦的網路瀏覽器之網頁位址欄裏輸入“http：//IPS-2000 Series IP：9999 ” 進入網頁設定登錄介面,輸入使用者名稱和密碼。預設使用者名稱和密碼分別是 root 和 test 。輸入完密碼後,按 Login 便可以進入 IPS-2000 Series 的網頁設定畫面。(請參照前文,「快速啓動註冊說明」部分。

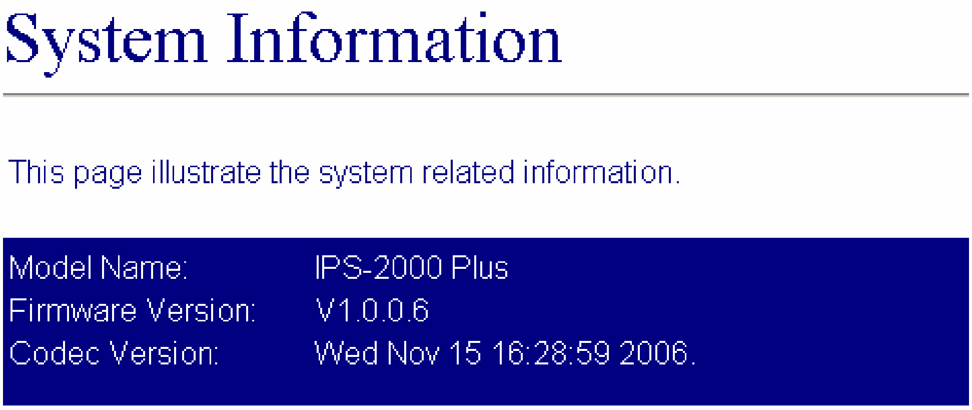
網頁設定中,每頁設定完後按下 submit 鍵後,方可儲存設定值,然後按下左邊欄位的 save change 按鈕鍵後,按下彈出 save 按鍵,方可儲存全部修改頁面。

以下爲 IPS-2000 Series 網頁設定項,各個欄位說明

3.1 Information（系統資訊）

IPS-2000 Series 系統基本資訊,可以看到軟體的版本資訊。

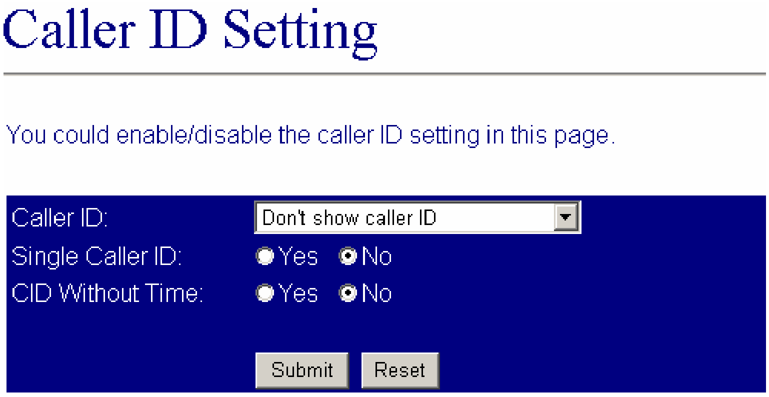
Model Name	產品型號
Firmware Version	Firmware 軟體的版本
Codec Version	Codec 軟體的編譯日期



3.2 Phone Setting（話機設定）

3.2.1 Caller ID

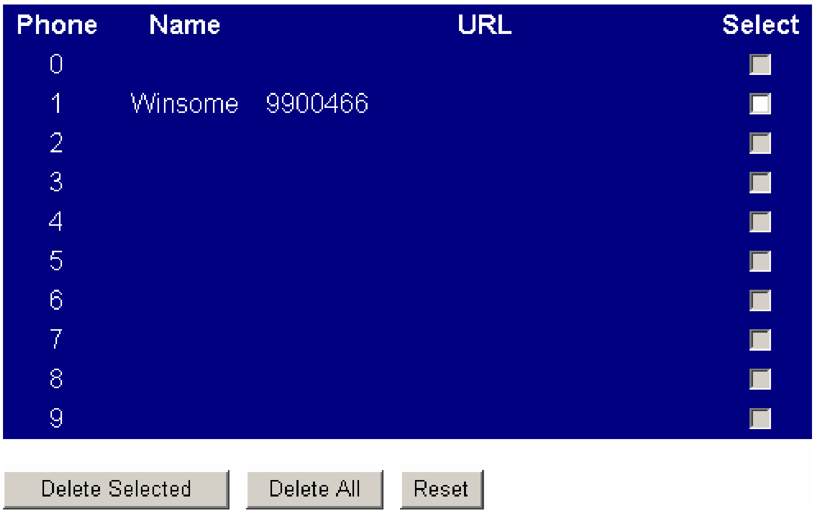
設定來電顯示



Caller ID Setting	
欄位名稱	說明
Caller ID	選擇顯示帳號 設定來電顯示,有 4 項來電選擇 有基於 FSK 或 DTMF 設定的來電顯示功能。
Single Caller ID	選擇設定是否使用單一的來電 ID。
CID Without Time	設定選擇顯示來電時間。

3.2.2 Phone Book（電話簿）

設定電話簿功能

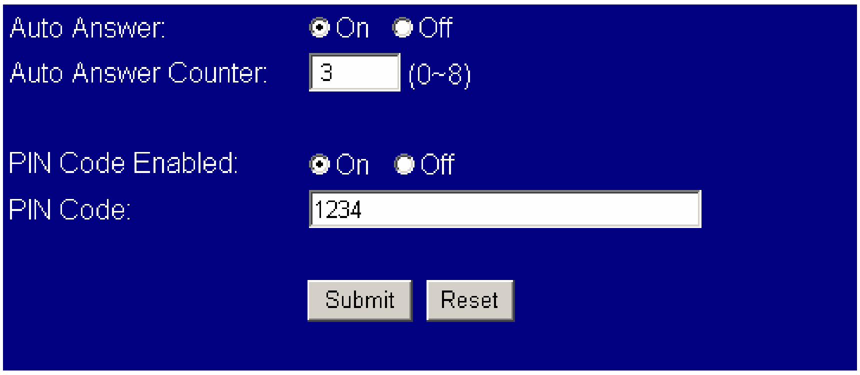


PHONE Book	
欄位名稱	說明
Delete Selected	刪除按鈕。刪除所選擇項內容。
Delete All	刪除按鈕。刪除所有內容。
Position	在填入欄裏填寫所對應的序號,隨後填入的號碼將寫到對應欄位裏。
Name	輸入撥號代碼。

URL	輸入外撥號碼或 IP 位置資料。
Add Phone	新增此筆資料。（可填入 140 個電話號碼）
Reset	清除已設定之資料。

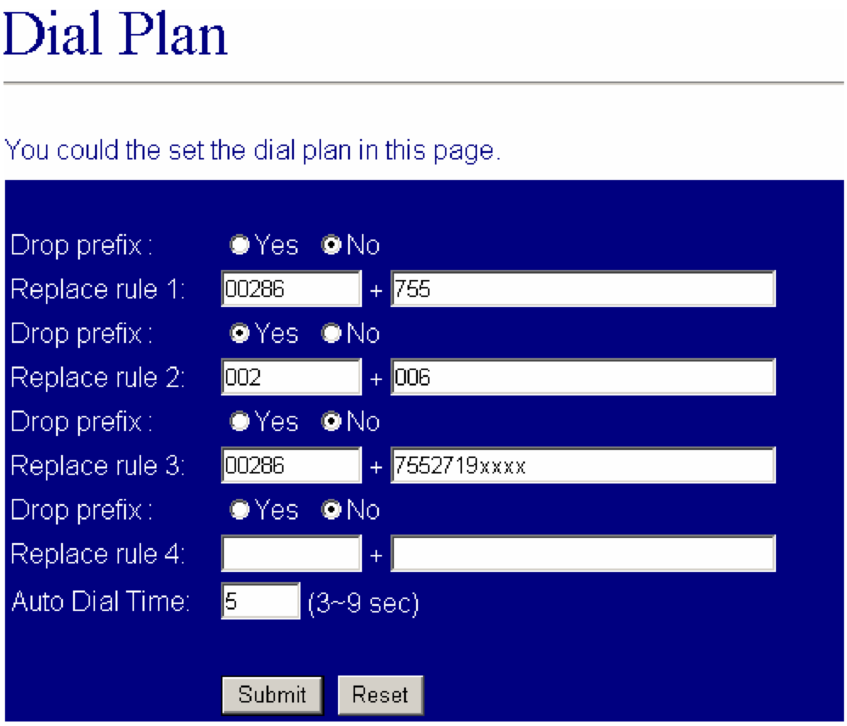
3.2.3 Auto Answer （自動應答）

設定自動應答功能



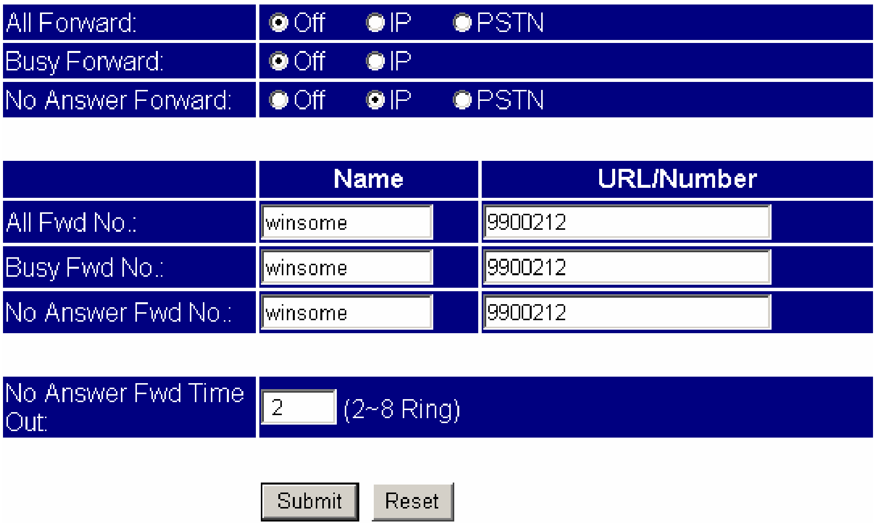
欄位名稱	說明
Auto Answer	選擇使用自動語音應答。選擇開啓自動應答功能後便使用上下車功能。
Auto Answer Counter	自動應答時間。設定來電響鈴 X 聲後（X 爲 0～8）,沒人接聽則進入自動應答。若設爲 0 則話機不會先響鈴,直接聽到上下車的二次撥號音。 ＊不能與 No Answer Fwd Time Out 設定相同,否則以 call forward 優先。
PIN Code Enabled	設定上、下車是否使用密碼認證。
PIN Code	設定上、下車密碼。

3.2.4 Dial Plan Setting（撥號規則）



Dial Plan Setting	
欄位名稱	說明
Drop Prefix	預設爲 No (加碼)。當設定爲 Yes (減碼)時,則執行減碼的動作。 設定 4 組資料 - No (加碼): 當 rule 符合時,則直接加碼。可輸入 7 位數。 - Yes (減碼): 當 rule 符合時,則減掉符合之代碼再加碼。可輸入 39 位數。
Replace rule1	設定撥號規範。 +: 或。 xxx: 指定碼長。
Auto Dial Time	預設爲 5(秒)。等待多久後自動執行撥號。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

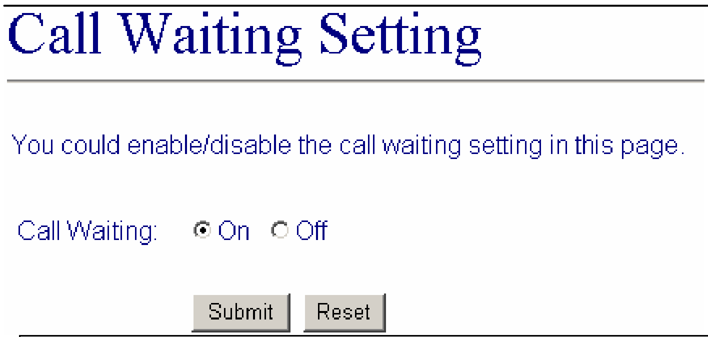
3.2.5 Forward Setting（電話轉接）



Forward Setting	
欄位名稱	說明
All Forward	全部轉接。打進來的所有電話都轉撥到指定號碼。
Busy Forward	遇忙轉接。電話忙線時,啓用轉撥功能。即當電話打進來後,若電話占線,則將轉撥到指定號碼。
No Answer Forward	無應答轉接。電話無人應答時,啓用轉撥功能。即當電話打進來後,在震鈴逾時後,則將轉撥到指定號碼。
All Fwd No	全部轉接號碼。填入開啓全部轉接後對應的轉撥姓名和電話號碼。
Busy Fwd No	遇忙轉接號碼。填入開啓遇忙轉接後對應的轉撥姓名和電話號碼。
No Answer Fwd No	無應答轉接號碼。填入對應的無人接聽電話時轉播的姓名和電話號碼。
No Answer Fwd Time Out	設定無應答響鈴時間,超過此響鈴次數,話機會進入無應答轉接狀態。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.2.6 Call Waiting（來電等待）

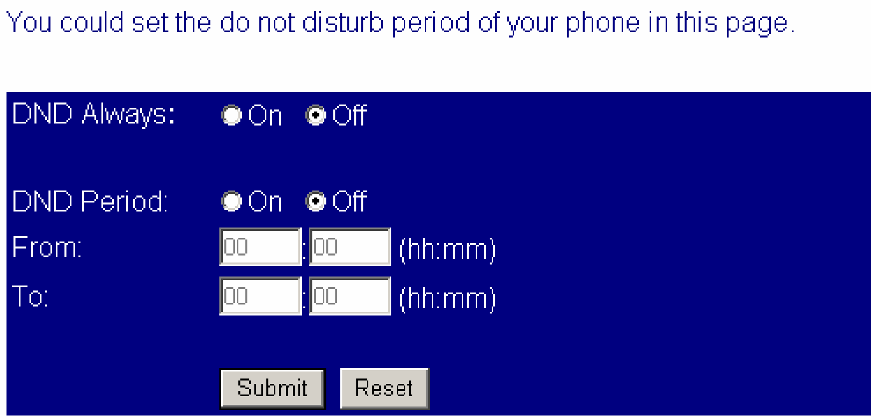
設定來電等候功能



Call Waiting	
欄位名稱	說明
Call Waiting	來電等待。設定當前話機使用來電等待功能。本機和 A 通話時,B 撥入,本機會每隔 3 秒聽到 "嘟,嘟" 兩聲,此時按下 "HOLD"鍵來保持 A 並接聽 B 的電話,並且可以按 "hold "鍵在 A 和 B 之間切換通話。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.2.7 DNS Setting（來電拒接）

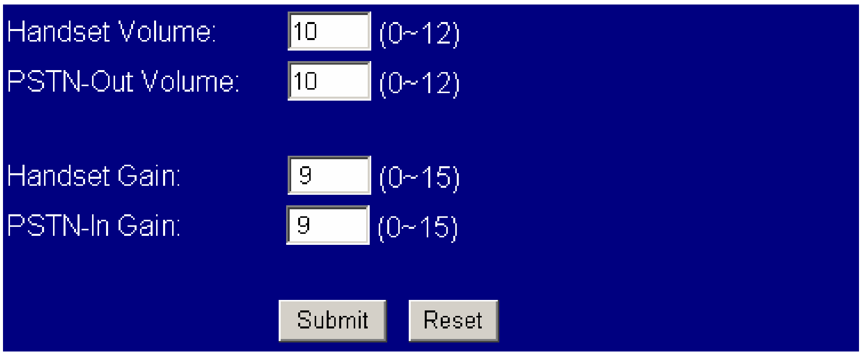
設定拒接電話功能



DNS Setting	
欄位名稱	說明
DND Always	拒接所有撥入電話,選擇 on 後所有打入的電話將聽到忙線音,off 爲不使用。
DND Period	某時段拒接設定。阻止某段時間打入的電話。From 中塡入開始時間,To 爲截至時間。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

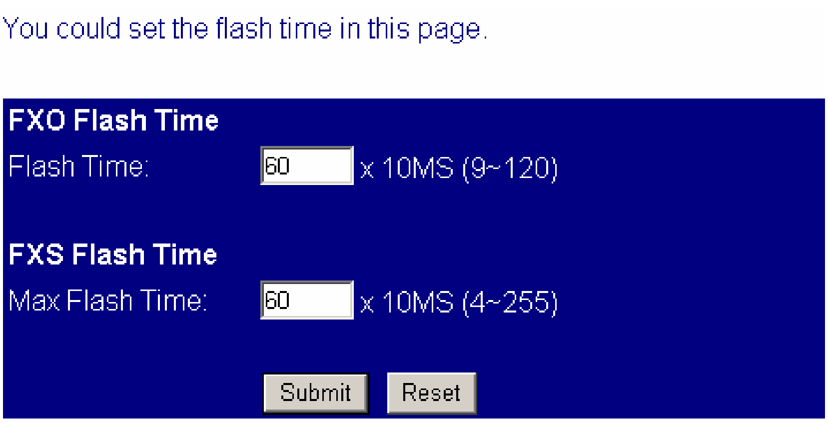
3.2.8 Volume Setting（音量設定）

設定音量大小



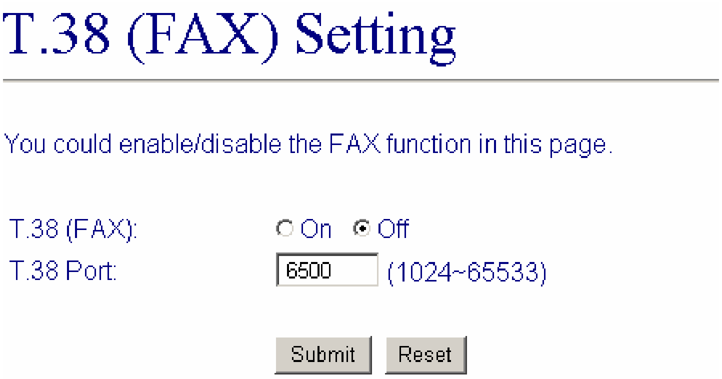
Volume Setting	
欄位名稱	說明
Handset Volume	話筒音量。設定聽筒輸入大小
Ringer Volume	震鈴音量。設定響鈴聲大小
PSTN-Out Volume	設定 PSTN 路線撥出時的聲音大小
Handset Gain	設定話筒輸出大小（建議不要超過 13）
PSTN-In Gain	設定 PSTN 路線撥入時的聲音大小

3.2.9 Flash Time Setting（閃切設定）



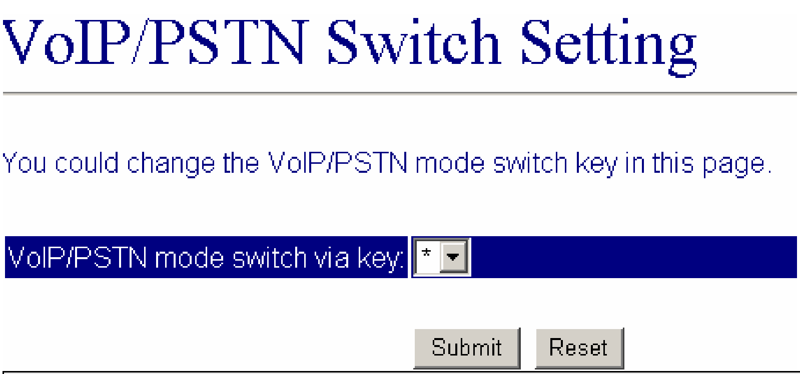
Flash Time Setting	
欄位名稱	說明
Flash Time	閃切設定。如使用插簧鍵來做切換鍵,設定 FXO 口插簧鍵按下到彈起的間隔時間。
Max Flash Time	閃切設定。如使用插簧鍵來做切換鍵,設定 FXS 口插簧鍵按下到彈起的間隔時間。

3.2.10 T.38 (FAX) Setting（傳真設定）



T.38 (FAX) Setting	
欄位名稱	說明
T.38(FAX)	設定網路傳真功能。On 爲開啓網路傳真功能,off 爲不使用。
T.38 Port	設定傳真埠。

3.2.11 VoIP/PSTN Switch Setting（VoIP/PSTN 切換功能鍵設定）



Flash Time Setting	
欄位名稱	說明
VoIP/PSTN mode switch via key	選擇電話機的某一按鍵設定切換到 PSTN 模式狀態的按鍵。

3.3 Networking（網路）

3.3.1 Status（網路狀態）

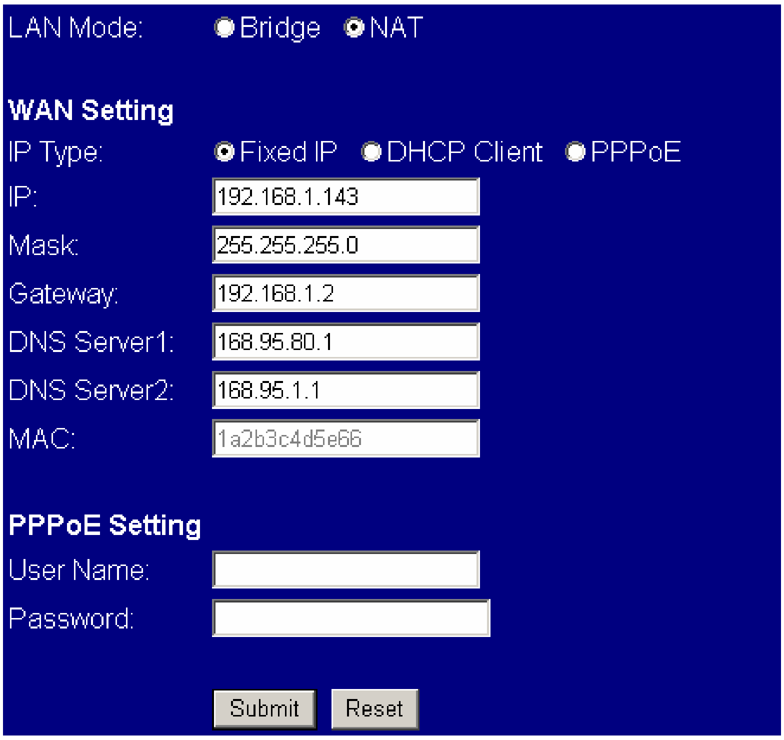
IPS-2000 Series 設備基本資訊顯示,開啓 Bridge 功能只顯示 Interface 0 資訊,開啓 NAT 功能顯示 Interface 0 和 Interface 1 資訊。

Interface 0	
Type:	Fixed IP Client
IP:	192.168.1.143
Mask:	255.255.255.0
Gateway:	192.168.1.2
DNS Server 1:	168.95.80.1
DNS Server 2:	168.95.1.1

Interface 1	
Type:	DHCP Server
IP:	192.168.123.1
Mask:	255.255.255.0
Gateway:	192.168.123.1
DNS Server 1:	168.95.80.1
DNS Server 2:	168.95.1.1

3.3.2 Network Setting（網路設定）

設定網路環境

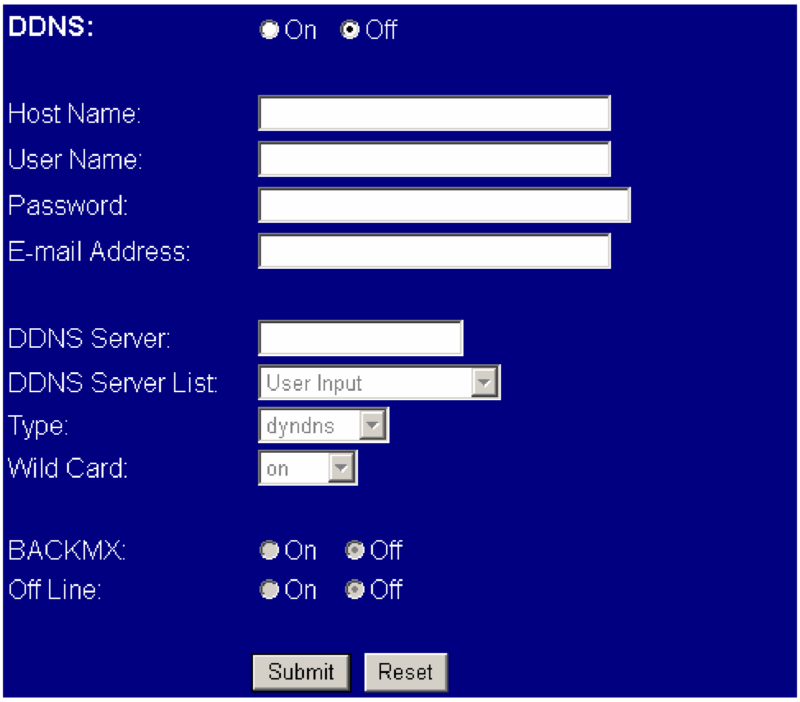


Network Setting	
欄位名稱	說明
LAN Mode	Bridge:開啓橋接器功能。

	NAT:開啓路由器功能
IP Type	IP 類型。依實際網路環境選擇適當的網路型態: ● Fixed IP選擇後需將 Local IP、Subnet Mask、Gateway IP、DNS 等欄位填入相關資料。 ● DHCP Client選取後會由 DHCP server 取得相關 IP 資料。 ● PPPoE ADSL 上网方式用戶選擇。
IP	設定 WAN 的 IP 位址。
Mask	設定 WAN 的子網路遮罩位址。
Gateway	設定 WAN 的預設閘道的 IP 地址。
DNS Server 1	設定 WAN 的主要 DNS 的 IP 位址。
DNS Server 2	設定 WAN 的備用 DNS 的 IP 位址。
MAC	本機網路卡號。
PPPoE Setting	
User Name	選取 PPPoE 時,設定用戶的 ADSL 帳戶名。
Password	選取 PPPoE 時,設定用戶的 ADSL 帳戶的密碼。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.3.3 DDNS Setting

設定 DDNS 環境

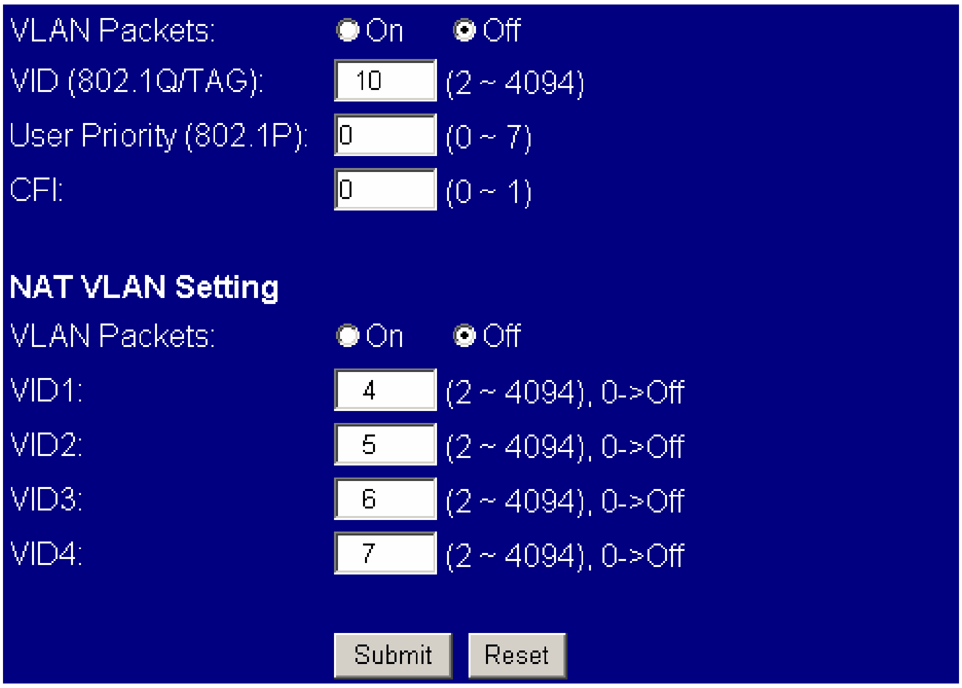


DDNS Setting	

欄位名稱	說明
DDNS	設定使用 DDNS。
Host Name	DDNS 伺服器主機名。
User Name	DDNS 伺服器註冊帳戶。
Password:	帳戶密碼。
E-mail Address	電子郵件位址。
DDNS Server	DDNS 的 IP 位址或域名。
DDNS Server List	DDNS 服務提供者列表。
Type	選擇 DDNS 工作模式。
Wild card	選擇是否啓用 Wild Card 功能。
Back MX	選擇是否啓用 Back MX 功能。
Off Line	選擇是否啓用 DDNS 的 Off Line 功能。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.3.4 VLAN Setting

虛擬局域網 VLAN 之設定。

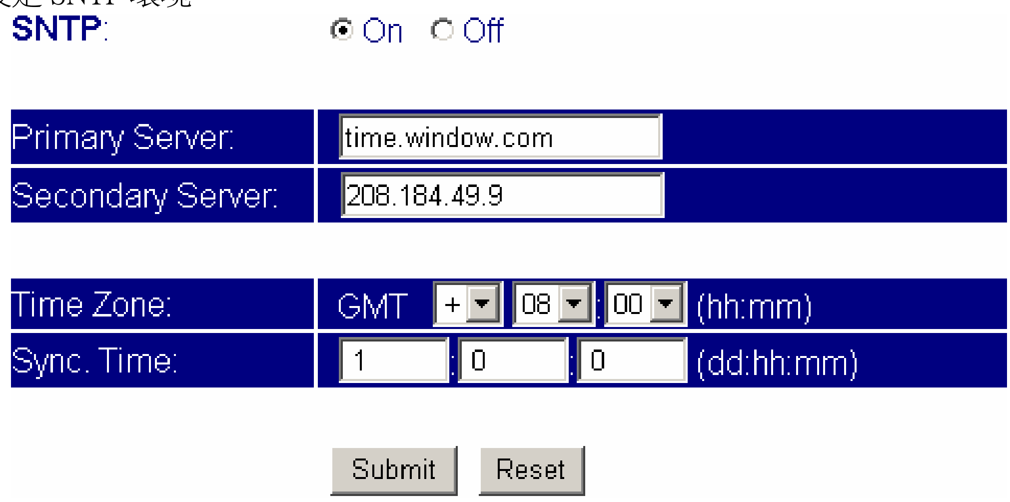


VLAN Setting	
欄位名稱	說明
VLAN Packets	預設為 Off(不執行)。當設定為 On (執行)時,則啓動接收 VALN Packets 功能。

VID	預設爲 136◦設定 VLAN Server 提供之虛擬區域網路識別碼 (Virtual LAN ID, 簡稱 VLAN ID 或 VID)。
User Priority	預設爲 0。設定使用者優先權(user priority),優先權範圍爲 0~7。
CFI	預設爲 1。設定一個位元之「制式格式指示」Canonical Format Indicator (CFI)。 CFI = 1 表示標籤頭中包含 RIF 欄位,而且 RIF 中的 NCFI 旗標値決定訊框資料中所攜帶的 MAC 位址是「制式格式」(Canonical Format)或「非制式格式」(Non-Canonical Format)。 CFI=0 則表示此標籤標頭不含 RIF 欄位,而且訊框中所包裝的 MAC 位址是「制式格式」。
NAT VLAN Setting	
VLAN Packets	預設爲 Off(不執行)◦當設定爲 On (執行)時,則啓動接收 VALN Packets 功能。
VID1 ~ 4	預設爲 136◦設定 VLAN Server 提供之虛擬區域網路識別碼 (Virtual LAN ID, 簡稱 VLAN ID 或 VID)。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.3.5 SNTP Setting

設定 SNTP 環境



SNTP Setting	
欄位名稱	說明
SNTP	設定使用時間伺服器,on 爲使用,off 不使用。
Primary Server	主伺服器。填寫主時間伺服器地址。
Secondary Server:	次伺服器。填寫副時間伺服器地址。
Time Zone	時區。填入當地時區。

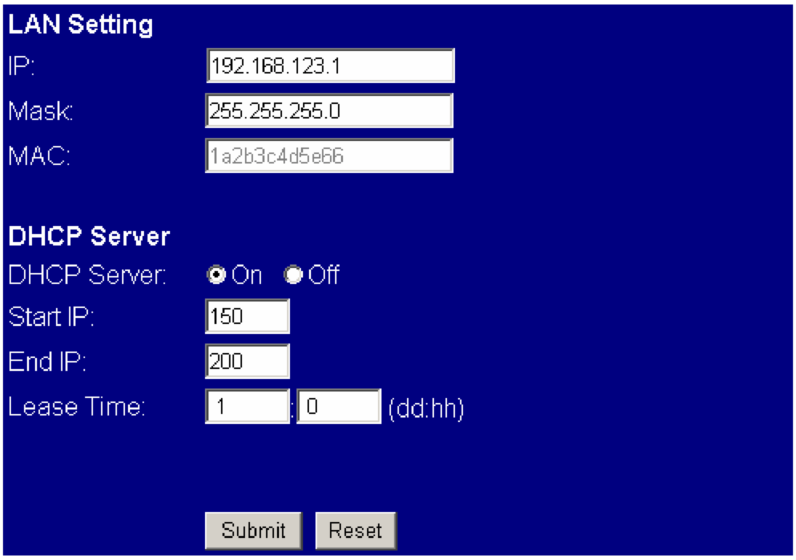
Sync. Time	自動對時週期設定。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.4 NAT Router（NAT 路由器設定）

此 NAT Router 功能並非所有 IPS-2000 Series 都具備。一般爲依特殊需求所設計之機種才具有 NAT Router 功能,如機型 IPS-2000N Plus 即具有此功能。

3.4.1 NAT Setting

路由器 NAT 功能之設定



LAN Setting	
欄位名稱	說明
IP	在開啓 NAT 功能後,LAN 埠將自己成爲另一個虛擬網域。
Mask	設定 LAN 端子網路遮罩。
MAC	本機網路卡號
DHCP Server	開啓 DHCP 伺服器服務。
Start IP	設定 DHCP 分配的起始 IP 其數據不能大於 255。
End IP	設定 DHCP 分配的終止 IP 其數據不能大於 255。
Lease Time	租約時間。由 DHCP 伺服器提供,指定 IP 位址可以使用的時間。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.4.2 DMZ Setting

路由器 DMZ 功能之設定

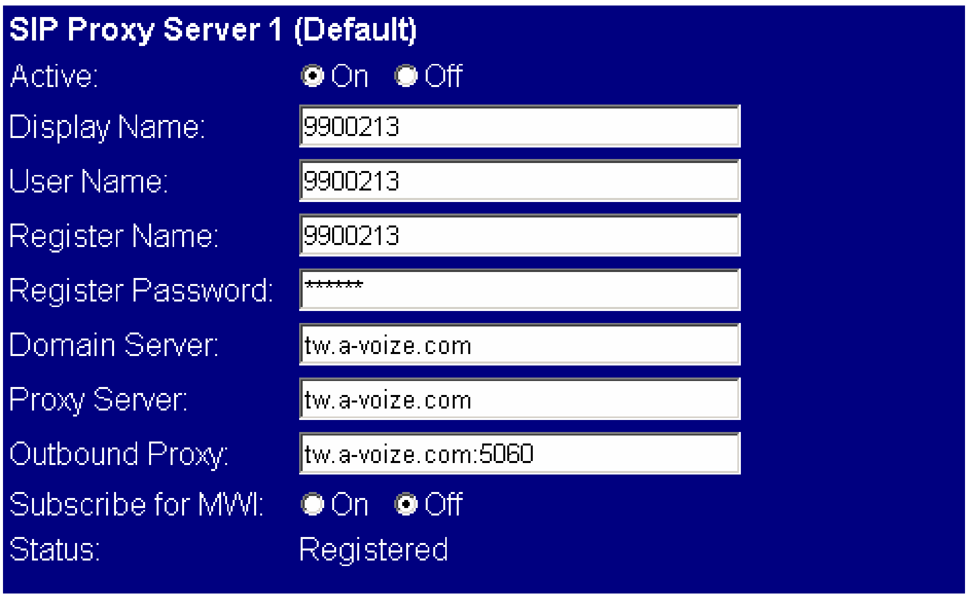


DMZ Setting	
欄位名稱	說明
DMZ	預設為 Off(不執行)。當設定為 On (執行)時,所有的封包(除了 SIP 相關)都會往該 IP 位置傳送。
DMZ Host IP	輸入指定的 IP Address。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.5 SIP setting（SIP 設定）

3.5.1 Service Domain（平台設定）

SIP Service Domain 功能之設定

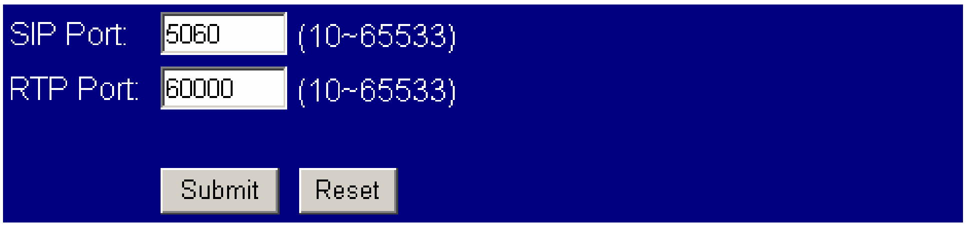


Service Domain	
欄位名稱	說明

Active	帳號選擇。 ● 此頁中可填入 3 個不同帳號,並且同時註冊上,當選擇 on 時為使用當前欄,再在當前欄填入對應註冊帳號。 ● 撥出的號碼以註冊的第一個號碼為主(以選取 on 選項的第一個選項欄為首選)。 第一個帳號註冊不上將自動跳轉到下一個註冊上的帳號,撥入到註冊上的任一號碼都可以接聽到電話。
Display Name	SIP 顯示的名稱。
User Name	用戶名,使用的號碼,在此設定本話機之電話號碼。
Register Name	註冊帳號名。
Register Password	註冊密碼。
Domain Server	網域功能變數名稱。
Proxy Server	要登錄的語音閘道器的 IP 位地址或者網域功能變數名稱。如果特殊埠號則加 :埠號。
Outbound Proxy	語音代理伺服器。如果特殊埠號則加 :埠號。
Subscribe of MWI	預設為 Off(不執行)。當設定為 On (執行)時,週期性的傳送“來話訊息留言偵測”的動作。
Status	註冊狀態,Registered 為註冊成功,Not Registered 為註冊失敗。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.5.2 Port Setting（埠號設定）

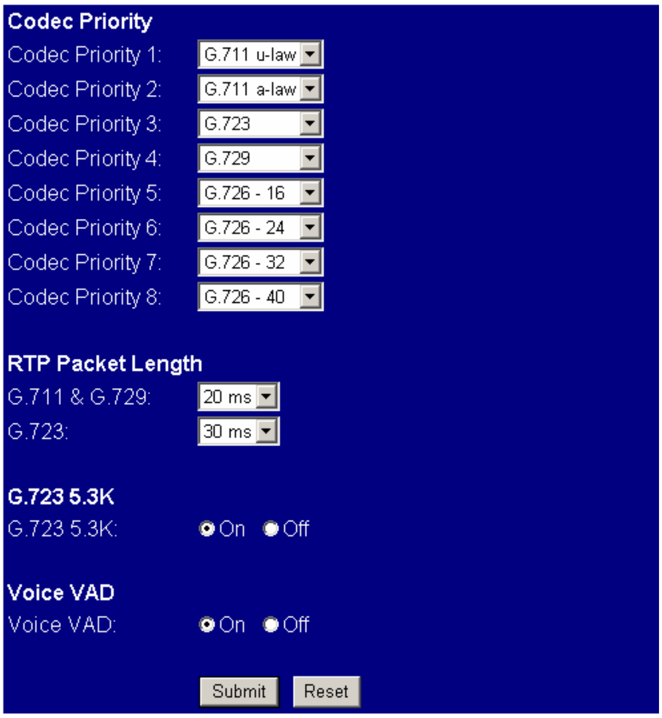
SIP 對應 port 之設定



Port Setting	
欄位名稱	說明
SIP Port	SIP 協定註冊埠,預設值為 5060。
RTP Port	RTP 埠號指語音傳送與接收的埠號. 埠號可在 10-65533 的範圍內選用,但一定為偶數。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.5.3 Codec Setting（語音編解碼設定）

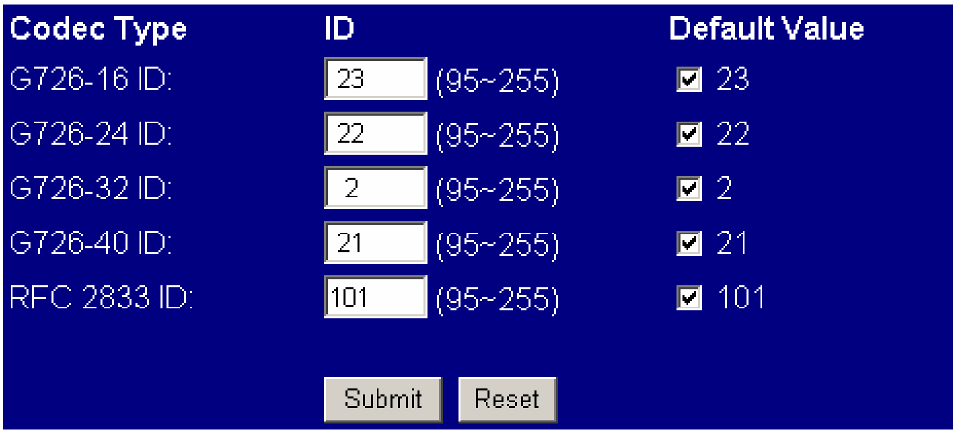
語音壓縮編解碼選擇之設定



Codec Setting	
欄位名稱	說明
Codec Priority	編解碼選擇。選擇編解碼的優先權（以 Codec Priority1 為首選）,及語音編解碼格式。
G.723 5.3K:	使用 g.723 語音編解碼時,設定 on 為使用 5.3K/S 之 Codec。
Voice VAD	使用動態語音檢測。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.5.4 Codec ID

特殊編解碼之設定



G726 各編解碼的設定及 RFC 2833 的設定,建議使用預設值,除非註冊平臺有其他要求。

3.5.5 DTMF Setting



DTMF Setting	
欄位名稱	說明
RFC2833	使用 rfc2833 方式傳送 DTMF 訊號。
Inband DTMF	使用 Inband DTMF 方式傳送 DTMF 訊號。
Send DTMF SIP Info	使用 SIP Info 方式。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

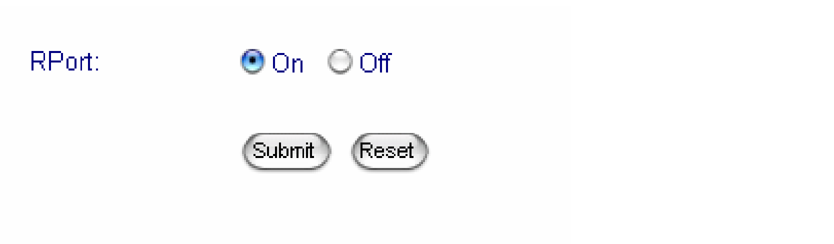
3.5.6 STUN Setting

採 STUN 方式穿越防火牆 NAT 之設定



STUN Setting	
欄位名稱	說明
STUN	設定是否使用 STUN 協定。
STUN Server	STUN 服務器位址。
STUN Port	STUN 埠號。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

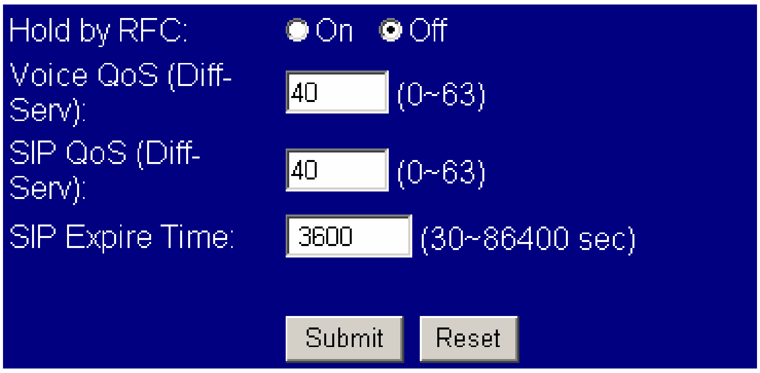
3.5.7 RPort Setting



RPort Setting	
欄位名稱	說明
On/Off	設定是否使用 RPort 协定。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.5.8 Other Setting

其他編碼相關設定功能



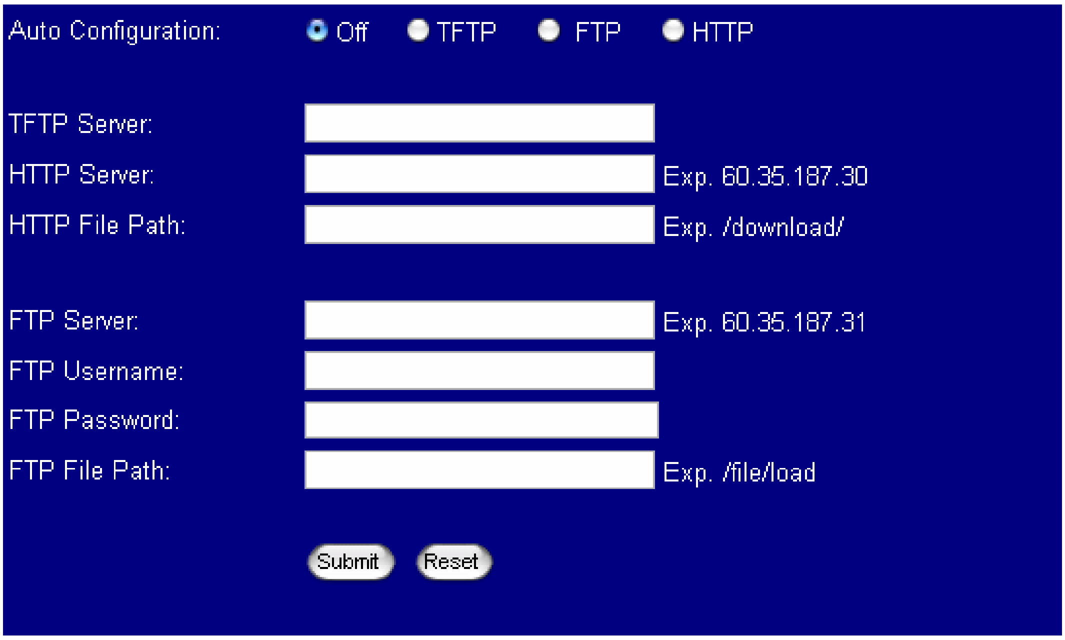
Ohter Setting	
欄位名稱	說明
Hold by RFC	RFC 選擇使用。此資訊由服務商提供。
Voice QoS	設定語音包的大小,數值大的高於數值小。

Sip QoS	設定 SIP 包的大小。
SIP Expire Time	SIP 註冊封包傳送間隔時間。

3.6 Others（其他設定）

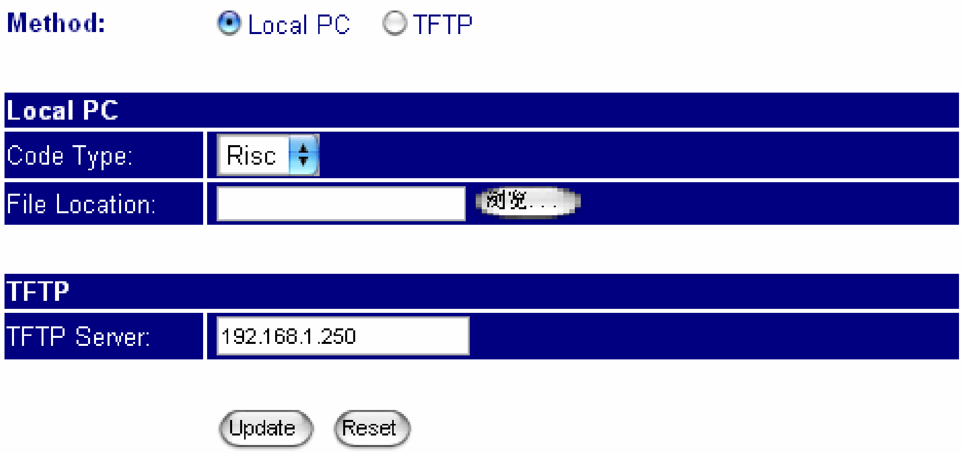
3.6.1 Auto Config（自動設定）

自動更新設定功能



Auto Config	
欄位名稱	說明
Auto Configuration	預設為 Off(不執行)。自動更新環境設定方式,提供 TFTP,FTP 及 HTTP 等三種方式。
TFTP Server	設定 TFTP Server 位置,可以輸入 IP 或 Domain Name 資料。
HTTP Server	設定 HTTP Server 位置,可以輸入 IP 或 Domain Name 資料。
HTTP File Path	設定路徑名稱,例如: /123/。
FTP Server	設定 FTP Server 位置,可以輸入 IP 或 Domain Name 資料。
FTP Username	登入 FTP Server 之使用者(User name)帳號資料。
FTP Password	登入 FTP Server 之密碼(Password)帳號資料。
FTP File Path	設定路徑名稱,例如: /123/。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

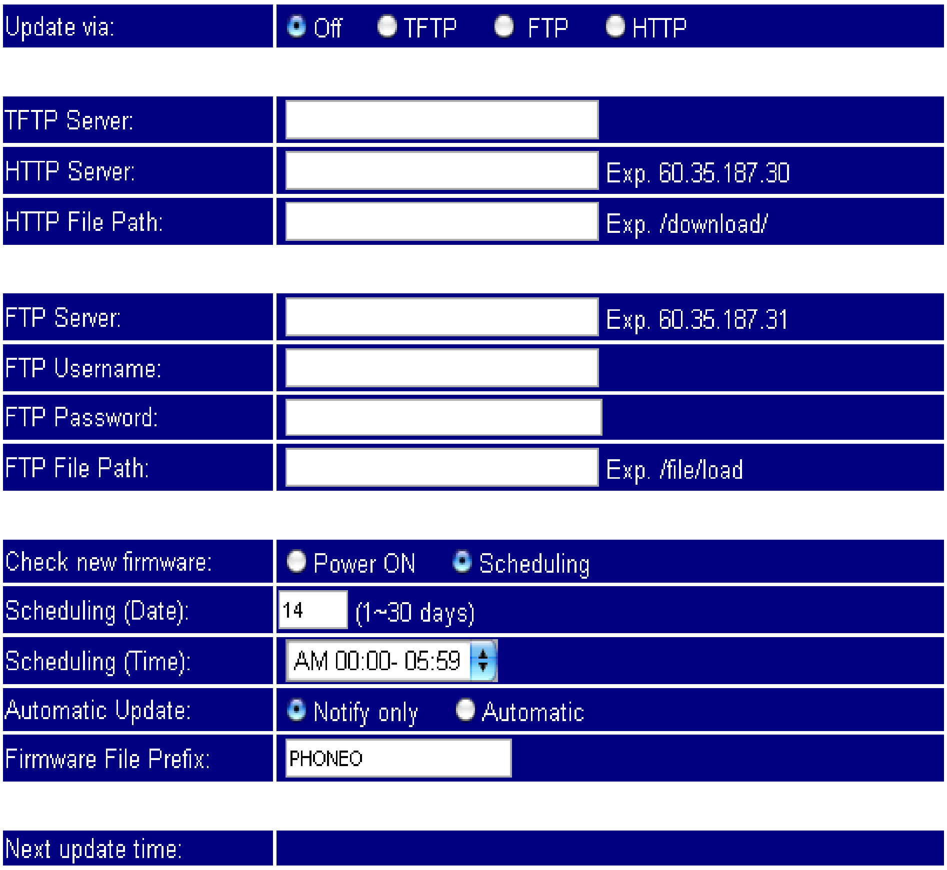
3.6.2 Firmware upgrade（韌體升級）



Ohter Setting	
欄位名稱	說明
Method	選擇使用 Local PC 方式或 TFTP 升級方式更新軟體。
Code Type	選擇更新程式編碼類型,可選擇 Risc 和 DSP 類型。
File Location	選擇升級程式位址。
TFTP Server	填寫升級的 tftp server 的 IP 位址。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

5.6. 3 Auto Update（自動升級韌體）

自動版本更新的功能,供提供更新 gz 或 ds 檔案格式；



Auto Update	
欄位名稱	說明
Update via	預設爲 Off(不執行更新)。版本自動更新方式,提供 TFTP,FTP 及 HTTP 等三種方式。
Check new Firmware	預設爲 Scheduling(依照時間排程)。檢查是否有新的版本提供,提供 Power ON (每次開機)或 Scheduling(按照排程)。 - Power On(開機檢查): Power on + Scheduling,即每次開機時及依照時間排程檢查是否有新的版本可供更新。 - Scheduling: 依照時間排程檢查是否有新的版本可供更新。
Scheduling (Date)	預設爲 14 天。每隔幾天去檢查一次,提供最短爲 1 天,最長爲 30 天。
Scheduling (Time)	預設爲 AM 00:00 – 05:59。每次去檢查的時間區段,詳細的時間爲隨機產生。提供四個區段分別爲 AM 00:00 – 05:59, AM 06:00 – 11:59, AM 12:00 – 17:59, AM 18:00 – 23:59。
Automatic Update	預設爲 Notify only (發送訊息通知)。自動更新的方式,提供 Notify only(發送訊息通知),Automatic(自動執行更新)。 - Notify only: 發訊息通知有新的版本,但不執行自動更新的動作,用户可以選擇是否更新爲新的軟件。 - Automatic: 在 Scheduling 已設定的條件下自動執行版本更新的動作,

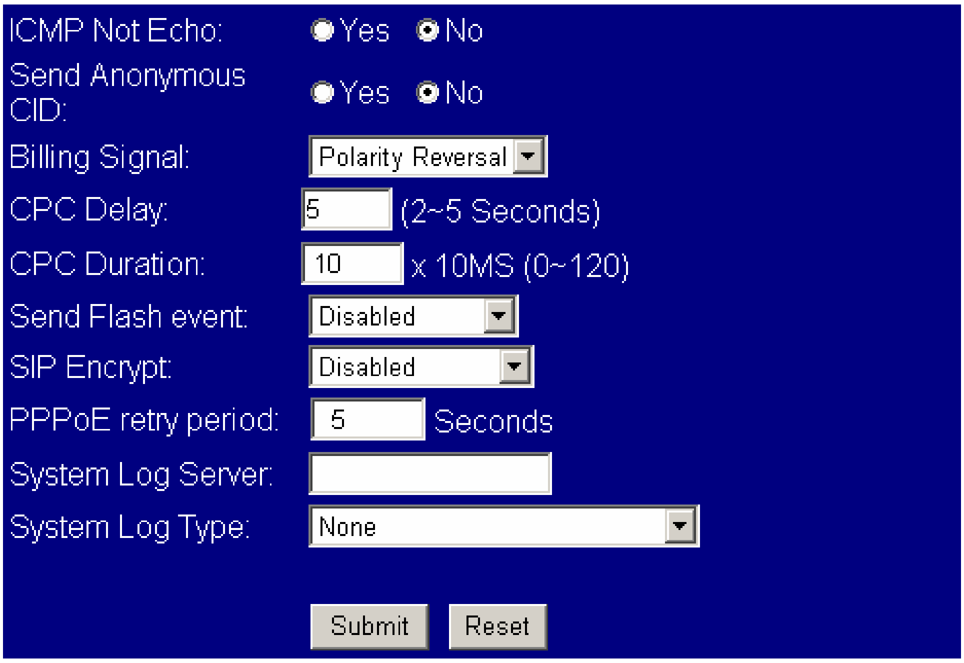
	在 POWER ON 時需用户自已選擇是否更新爲新的軟件。
Firmware File Prefix	預設爲產品型號。檢查符合產品型號之版本資料。
Next update time	下次檢查或更新之日期與時間資料。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.6.4 Default Setting（回復出廠設定值）



3.6.5 Advanced Setting（進階設定）

依地區電信設備之特性選擇適當之參數,須由經銷商或技術工程師之建議。

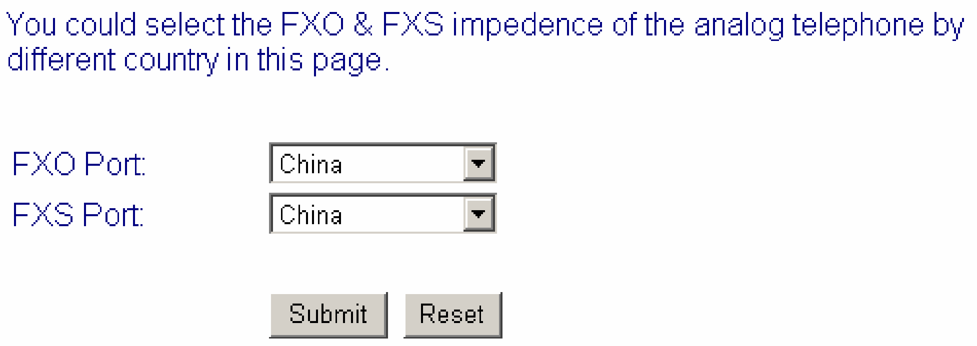


Advanced Setting	
欄位名稱	說明
ICMP Not Echo	預設爲 No (不執行)。啓動不回應 ping 的訊息。
Send Anonymous CID	預設爲 No (不執行)。啓動去電保密功能,不送本機之號碼資料。
Billing Signal (*)	預設爲 Disable (不執行)。啓動極性反轉功能，通知計費系統 (Polarity Reversal, Tone_12K, Tone_16K)。支援 FXS 埠。

CPC Delay	預設爲 2。提供設定當收到掛斷訊號時,等待多久時間後,開始將電壓降到 0V。支援 FXS 埠。
CPC Duration	預設爲 0ms(不降任何的電壓)。開始將電壓降到 0V 時，要持續送多久時間 ms。支援 FXS 埠。
Send Flash event	預設爲 Disable (不執行)。送 flash event 格式，提供 DTMF Event 及 SIP Info 二種格式。
SIP Encrypt	預設爲 Disable (不執行)。SIP 加密方式,提供 INFINET, AVS, WALKERSUN1, WALKERSUN2 四種格式。 僅提供有此服務之環境使用。
PPPoE retry period	預設爲 5 Seconds。設定區間爲 5~255。當 PPPoE 撥接失敗後，要等侯多久時間再重新執行撥接功能。
System Log Server	提供將系統的訊息予以儲存至指定之主機位置。
System Log Type	預設爲 None (不執行)。System Log 訊息資料格式，提供 None, Call Statistics, General Debug, Call Statistics + General Debug, SIP Debug, Call Statistics + SIP Debug, General Debug + SIP Debug, All 七種格式。
Submit	執行儲存變更設定。
Reset	清除已設定之資料。

3.6.6 FXO & FXS port（FXO/FXS 設定）

依設備所在的國家區域設定



3.6.7 System Auth

設定使用者密碼

System Auth	
欄位名稱	說明
New username	使用者名稱。這裏設定本設備新登錄名。
New password	設定新使用者密碼。
Confirmed password	確認密碼。

3.7 Save Change（儲存設定）

點擊 save 鍵後將儲存所有設定,隨後 IPS-2000 Series 將重新啓動。

3.8 Reboot（重新啓動）

重新啓動。

4. 產品規格

語音介面	
呼叫控制協定	SIP v1 (RFC 2543), v2 (RFC 3261)
語音壓縮	G.711 (64k bit/s, PCM), G.723.1 (6.3k / 5.3k bit/s), G.726 (16k / 24k / 32k / 40k bit/s, ADPCM), G.729A (8k bit/s, CS-ACELP), G.729B (adds VAD & CNG to G.729)
延遲 (點對點)	< 100ms
回音抵消	Packet Loss Compensation, Adaptive Jitter Buffer, VAD (Voice activity detection), CNG (Comfortable noise generator), AEC (Acoustic echo canceller), G.165 (LEC, Line echo canceller), G.168 (EC, Digital network echo canceller)
通話平均流量	5.3K(G.723.1) ~ 64K(G.711) bps
其他支援	In-Band DTMF, Out-of Band DTMF, SIP Info
區域網路介面	
介面規格	10/100Mbps Fast Ethernet
介面連接器	RJ-45 Connector
管理工具	網頁瀏覽器
支援網路協定	Static IP / DHCP Client / PPPoE Client / TFTP Client / HTTP Server / DNS Client / Telnet / SNTP / RTP / RTCP / DDNS
韌體更新	HTTP / TFTP / FTP
呼叫支援	Call Hold / Call Waiting / Call Forward / Call Transfer / Caller ID / Call Block / 3-way Conference
電話機介面	
介面規格	FXS/FXO port
介面連接器	RJ11 電話機標準介面
其他規格	
電源	100 – 240VAC, 50 – 60Hz, 12VDC
耗電量	6W
工作環境	工作溫度：0 ~ 40℃ (32° ~ 104°F)
	儲存溫度：-30 ~ 65℃ (-22° ~ 149°F)
	相對濕度：10 ~ 95% Non-Condensing
重量	288g
認證	CE / FCC
尺寸	165mm * 110mm * 35mm
其他	140 筆資料的電話薄
	英文的語音提示
	NAT 穿透 (STUN / uPnP / R-Port)
	網路狀況顯示、韌體更新、無應答轉接、忙線轉接、來電直接轉接、網頁式管理設定介面等等,LED 指示燈。

5. 常見問題與排解（Q&A）

1.怎樣確定 IPS-2000 Series 註冊成功？

如果 IPS-2000 Series 帳號註冊成功,IPS-2000 Series 的 register 燈會亮,如果燈滅則表示註冊不成功。IPS-2000 Series 大約在 2 分鐘內能註冊成功。

2 .接上電源後,POWER 燈能正常亮起,但 WAN(LAN2)燈不亮,這是爲什麼？

這時請您檢查連接線路是否有鬆動,如果連接正常,請檢查您的網路是否正常。

3.如果停電了是否會影響正常打電話？

停電後,IPS-2000 Series 將沒有電源供應,這是 IP 路線撥入或撥出的電話將不能接通,但 PSTN 路線的電話還能正常撥打和接聽。

4.是否支援上下車功能？

支援。上車使用方法:

- 直接從 PSTN 外線撥入,聽到數聲震鈴聲後會出現第二次撥號音,再轉撥所要撥打的電話。
- 若有設定 PIN CODE 時,在撥通後會聽到數聲震鈴聲.接著數聲急促的嘟嘟聲,此時按 Pin code#後就會聽到第二次撥號音,再轉撥所要撥打的電話。

下車使用方法:

- 撥打 IPS-2000 Series 的 SIP 門號,聽到數聲震鈴聲後會出現第二次撥號音,再轉撥所要撥打下車的電話。
- 若有設定 PIN CODE 時,在撥打 IPS-2000 Series 的 SIP 門號撥通後會聽到數聲震鈴聲,接著數聲急促的嘟嘟聲,此時按 Pin code#後就會聽到第二次撥號音,再轉撥所要撥打下車的電話。

5.如何正確撥打 PSTN 電話？

當 PSTN 優先時,拿起話筒,聽到撥號音後,即可撥打 PSTN 號碼;當 IP 優先時,拿起話筒,按一下切換鍵（預設鍵爲*）切換到 PSTN 電話, 聽到撥號音後,即可撥打 PSTN 號碼。

6.如何正確撥打 IP 電話？

當 PSTN 優先時,拿起話筒,按一下切換鍵（預設鍵爲*）切換到 IP 電話,聽到撥號音後,即可進行撥號。撥完號碼後按下＃鍵結束(也可不按)後,撥號完畢。

7.保留(Hold)如何使用？

當正在接聽電話時,通過按一下 Hold 鍵或者插簧鍵可以保持對方,再按下一次將恢復通話。

8.如何使用來電等待（Call Waiting）？

當正在通話時,從話機聽筒傳出“嘟嘟”兩聲,表示有插撥進來, 若想接聽插撥, 可以按 HOLD 鍵或者插簧鍵,就可以接聽插撥了。

9.如何操作來電轉移 Call Transfer？

- 無條件轉移（Blind Transfer）

A 與 B 在通話的過程中,A 執行轉接給第三方,A 先 Hold 住與 B 的通話,按#510#接著輸入第三方的號碼,結束加"#"字鍵,即可將電話轉給第三方。

- 服務轉移（Attendant Transfer）

A 與 B 在通話的過程中,A 執行轉接給第三方,A 先 hold 住與 B 的通話,#511#接著輸入第三方的號碼,結束加"#"字鍵,則第三方開始振鈴,A 與 C 通話後,A 掛斷電話,則 B 與 C 可以互相通話。

10.如何操作三方會議？

- 與使用者 A 建立通話。
- 通話中按下 Hold 鍵或者插簧鍵將 A 通話保留,再按#512#接著輸入 B 的號碼,結束加"#"字鍵。
- 接通 B 後,告知有來電並詢問接聽意願。
- 如果 B 不願意接聽,或轉接（諮詢）B 失敗,請按下 Hold 鍵或者插簧鍵取消轉接並取回與 A 之通話。
- 如果 B 願意接聽,請您按再下 hold 鍵或者插簧鍵後,進入三方會談。

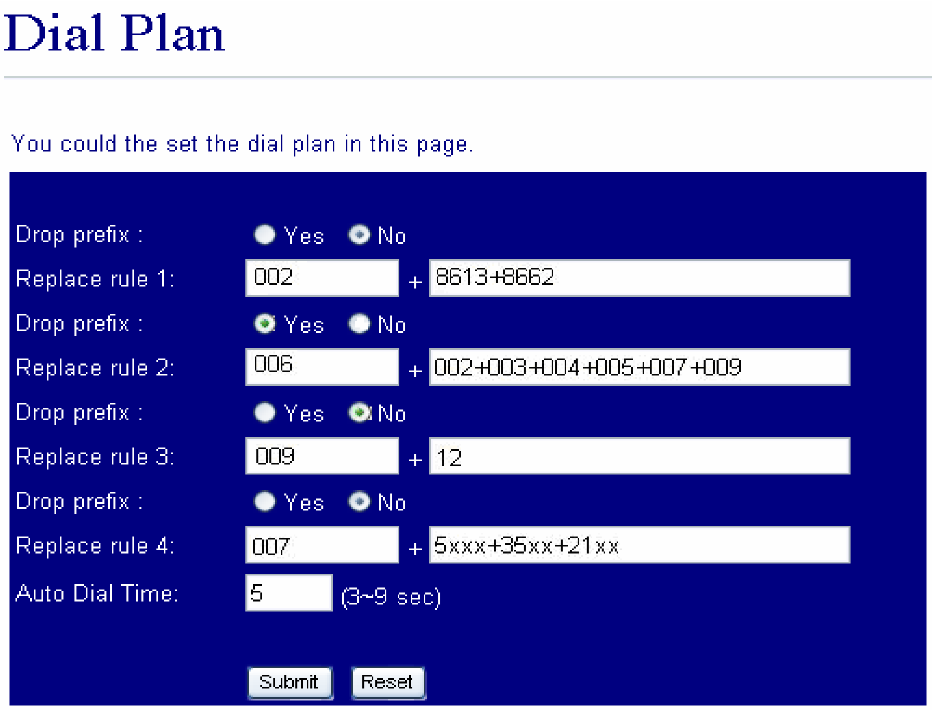
11.速撥鍵(SPEED DIAL) 要怎麼用？

先在 Speed Dial 的網頁裏填入您需要快速撥號的號碼,然後拿起聽筒或者按下免持鍵後,按下＊鍵（切換到 IP 線路）,再按下對應的快速撥號號碼,接著按下＃鍵後速撥完畢。（注：只能速撥 IP 線路的電話號碼。）

12. IPS-2000 Series 支持什麼類型的電話機？

IPS-2000 Series 的 RJ-11 介面是國際標準,可以使用於大部分標準的電話機,包括傳統無線電話和 DECT(數位先進)無線電話,所有電話的功能都能使用,其餘的功能請參考您的電話使用手冊。

13.Dial plan 設定範例



範例 1: Drop prefix: No, Replace rule 1: 002, 8613+8662。

說明 1：當撥號時有輸入 8613 時,只要符合 8613 開頭的號碼,全部在前面自動加上 002；則實際號碼為[002+8613+xxx]。

說明 2：當撥號時有輸入 8662 時,只要符合 8662 開頭的號碼,全部在前面自動加上 002；則實際號碼為[002+8662+xxx]。

範例 2：Drop prefix: Yes, Replace rule 2: 006, 002+003+004+005+007+009；

說明 1：當撥號時有輸入 002 時,只要符合 002 開頭的號碼,全部將 002 開頭的號碼,置換成 006；則實際號碼爲[006+xxx]。

說明 2：當撥號時有輸入 003 時,只要符合 003 開頭的號碼,全部將 003 開頭的號碼,置換成 006；則實際號碼爲[006+xxx]。

範例 3:Drop prefix: No, Replace rule 3: 009, 12。

說明 1：當撥號時有輸入 12 時,只要符合 12 開頭的號碼,全部在前面自動加上 009；則實際號碼爲[009+12+xxx]。

範例 4:Drop prefix: No, Replace rule 4: 007, 5xxx+35xx+21xx。

說明 1：當撥號時有輸入 5xxx 時,要符合 5 開頭,後面接著 3 碼的資料；全部在前面自動加上 007；則實際號碼爲[007+5xxx]。

說明 2：當撥號時有輸入 534 時,符合 5 開頭,後面接著 2 碼的資料；不符合加碼規則;實際號碼爲[534]。

說明 3：當撥號時有輸入 35xx 時,要符合 35 開頭,後面接著 2 碼的資料；全部在前面自動加上 007；則實際號碼爲[007+35xx]。

說明 4：當撥號時有輸入 358822 時,符合 35 開頭,後面接 4 碼的資料；不符合加碼規則;實際號碼爲[358822]。

14. 如何多個 SIP 平台切換？

如果話機已同時設定好 2-3 個 SIP 平台帳號若要切換到想使用的平台則請照下列方法操作
例如話機同時設定有 ABC 三個 SIP 平台,A 爲預設平台;要由 A 平台切換到 B 平台則

- 舉起話筒或按下免持鍵切換到 IP 撥號模式
- 按 2*
- 掛上話筒或按免持鍵保持話機待機狀態
- 現在即可以使用 B 平台撥打電話

如果要使用 C 平台則

- 舉起話筒或按下免持鍵切換到 IP 撥號模式
- 按 3*
- 掛上話筒或按免持鍵保持話機待機狀態
- 現在即可以使用 C 平臺撥打電話

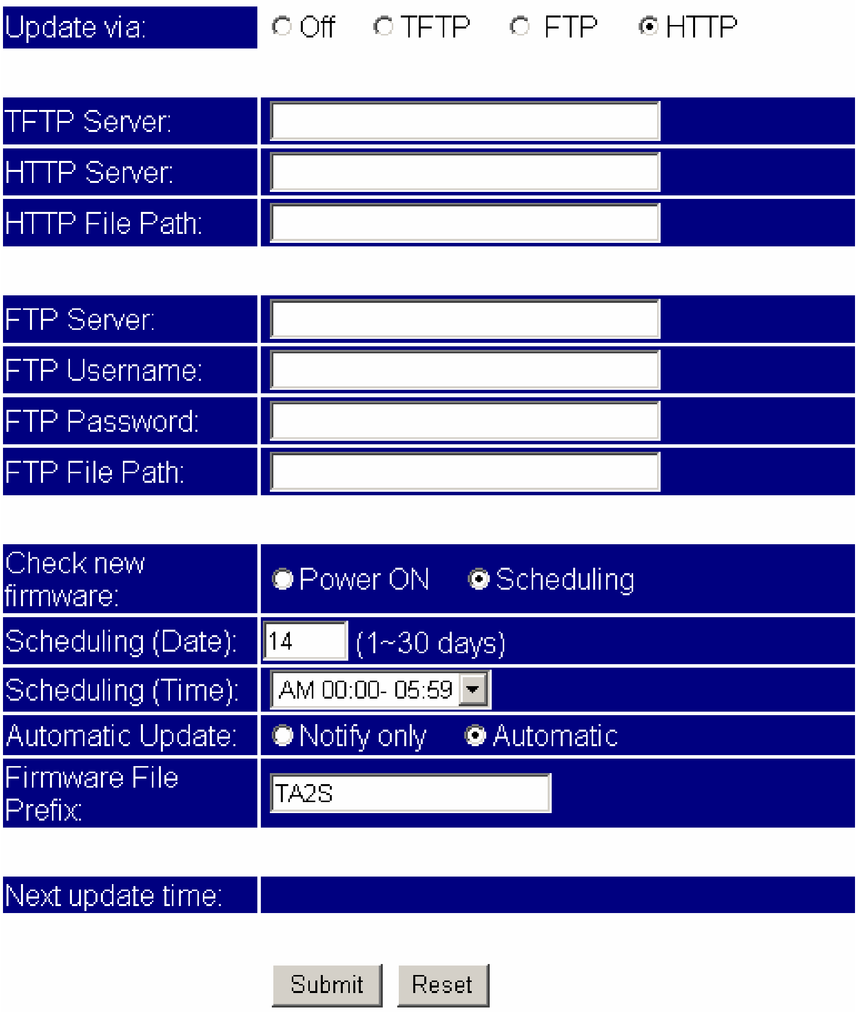
如果又要使用 A 平台則

- 舉起話筒或按下免持鍵切換到 IP 撥號模式
- 按 1*
- 掛上話筒或按免持鍵保持話機待機狀態
- 現在即可以使用 A 平臺撥打電話

若話機重新啓動後則預設平台爲 A 平台

13. Auto Update 如何設定？

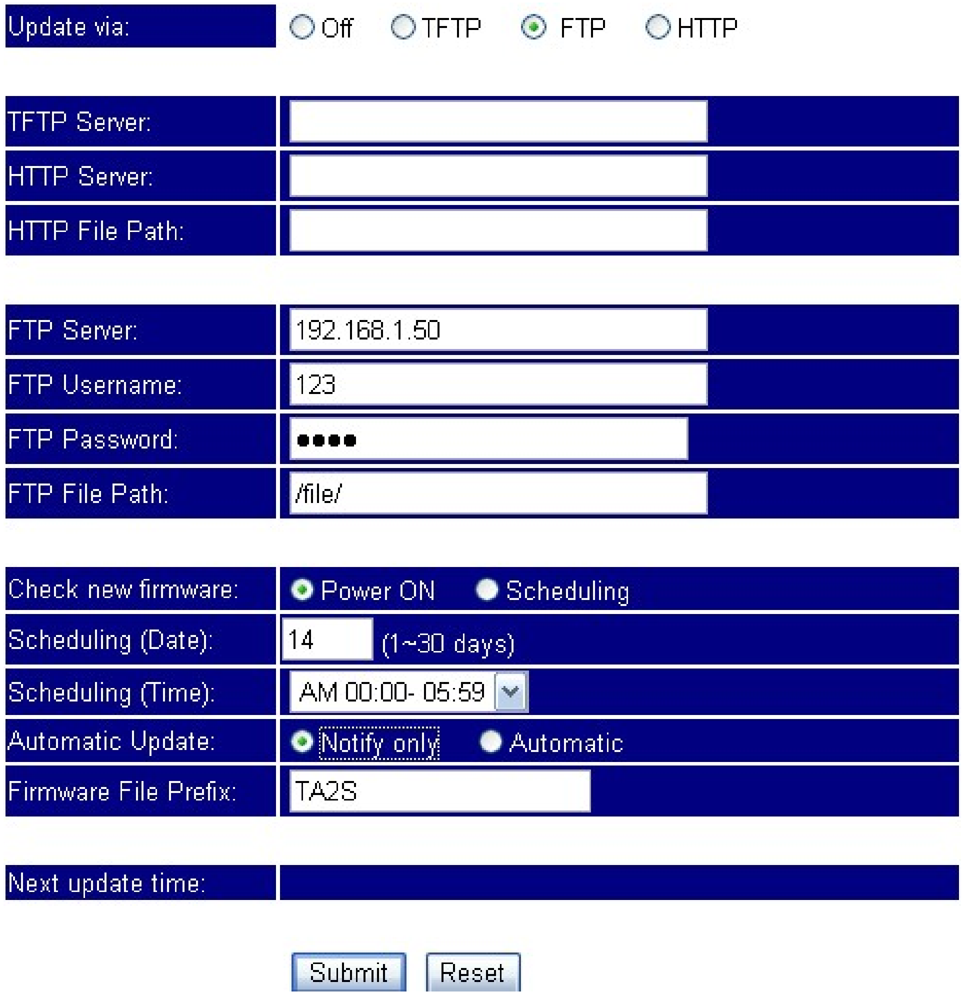
範例說明



範例 1：Update via: HTTP, Check new firmware: Scheduling, Scheduling (Date: 14), Scheduling (Time): AM 00:00-05:59, Automatic Update: Automatic；Firmware File Prefix: TA2S。

說明 1：依照設定之行程每隔 14 天去 HTTP Server, 檢查是否有可供更新之版本, 如果有則自動執行更新的動作。

說明 2：Auto Update 必須配合相應的升級伺服器: HTTP, HTTP Server: 192.168.1.50, HTTP Path: /file/。



範例 2：Update via: FTP, Check new firmware: Power, Scheduling (Date: 30), Scheduling (Time): AM 00:00-05:59, Automatic Update: Notify；Firmware File Prefix: TA2S。

說明 1：依照設定之行程每隔 30 天去 FTP Server，檢查是否有可供更新之版本，如果有則發出通知的訊息，如果使用話筒當拿起電話時，會聽到 DoDoDo 三聲。如果此時要執行強制更新的動作，請輸入 "#190#" 解除鎖定掛上電話，在輸入 "#160#" 強制執行版本更新。

說明 2：Auto Update 必須配合相應的升級伺服器: FTP, FTP Server: 192.168.1.50, FTP File Path: /file/。

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